

ALL 1150 445 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
QUANTICO VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

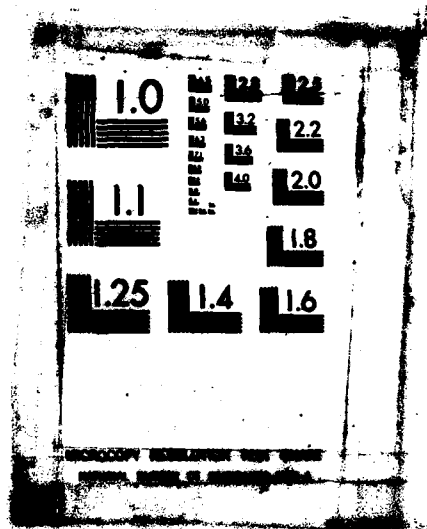
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
QUANTICO VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

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AD-A150 445

# SMOS

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

STATION: #13773 Quantico, VA

PERIOD: HOURLY 1/68-9/78  
DAILY 2/45-12/83

JOB NO. 72006

DATE September 1984

PREPARED BY  
NAVAL OCEANOGRAPHY  
COMMAND DETACHMENT,  
FEDERAL BUILDING  
ASHEVILLE, N.C. 28801

PREPARED FOR  
COMMANDER,  
NAVAL OCEANOGRAPHY  
COMMAND  
NSTL MS 39529





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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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4. TITLE (and Subtitle) Summary of Meteorological Observations, Surface (SMOS) Quantico, VA		5. TYPE OF REPORT & PERIOD COVERED Reference Report 1973-1982
7. AUTHOR(s) NA		6. PERFORMING ORG. REPORT NUMBER
8. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Oceanography Command Detachment Federal Building Asheville, NC 28801		9. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS Commanding Officer Naval Oceanography Command Facility NSTL, MS 39529-5002		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

**DESCRIPTION:** Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

**COMMENT:** All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOC), Asheville, N.C. welcomes your comment and criticisms.

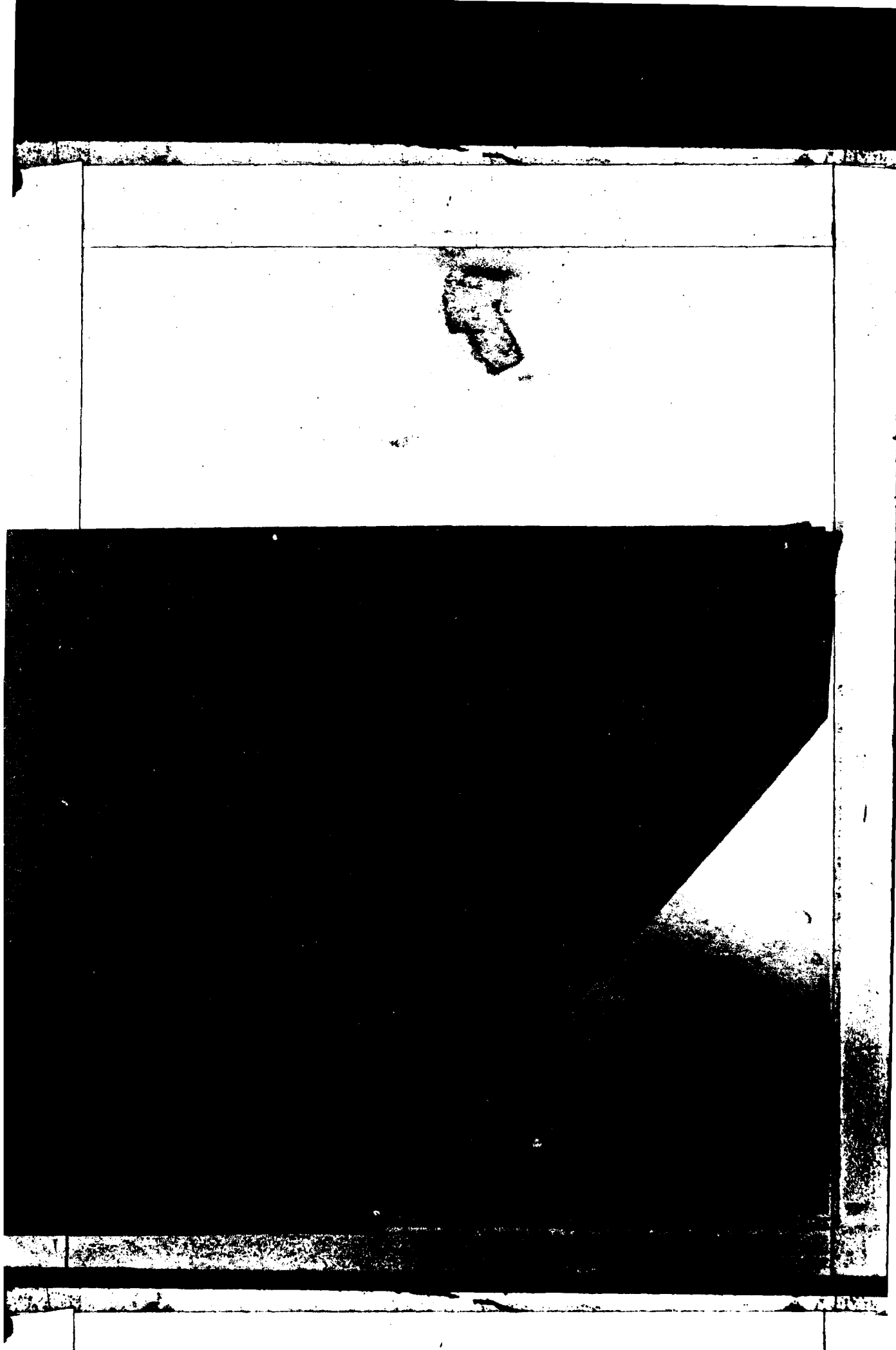
STATION NO. OR SUMMARY: 13773	STATION NAME: Quantico, Virginia	LATITUDE: 38°30'N	LONGITUDE: 77°18'W	STATION ELEV. (FT.): 11	CALL SIGN: KNYG	WMO NUMBER
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### STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		CDS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather office, southeast corner hangar #2105	MCAS	1948	1969	38°30'N	77°18'W	14		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop control tower	UMQ-5		59.6'	1. Barometer, aneroid 2. Barograph (ML-3) 3. Semi-auto met sta (AN/GMQ-14) 4. Cloud height set (AN/GMQ-13B) 5. Theodolite (ML-247) 6. Transmissometer (AN/GMQ-10C)
2.	1958	500' west of runway 02/20	"	RD-108	14.0'	

NWSD, Federal Building  
Asheville, N.C.



NOCOD, Federal Building  
Asheville, N. C.

## PART A

## WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WEAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

Blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

## PART A

## ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

# WEATHER CONDITIONS

## ATMOSPHERIC PHENOMENA

17773

QUANTICO, VA

45-76, 78

ALL

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE OF DAYS WITH VARIOUS ATMOSPHERIC PHENOMENA  
FROM DAILY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	DAILY	.7	39.8	3.0	18.1		46.6	42.9	31.3	1.0		57.3	900
FEB		1.1	42.3	4.3	18.5	.6	47.4	39.8	32.9	1.1		56.7	836
MAR		4.1	51.8	.7	10.1	.2	51.6	40.1	32.3	.3		55.2	902
APR		7.5	53.9	.1	1.1	.4	48.5	33.4	25.9		.1	43.9	909
MAY		16.0	55.4			.3	49.9	43.5	38.8			55.5	919
JUN		20.2	50.0			.3	48.4	42.7	48.7		.1	61.0	883
JUL		25.4	54.1			.5	48.9	45.5	56.9		.1	66.3	886
AUG		19.0	45.1				41.1	53.4	63.5			74.2	925
SEP		9.3	40.7				36.6	50.4	50.1			65.8	889
OCT		2.6	35.6		.2	.1	32.7	51.2	43.8		.1	63.2	957
NOV		1.4	42.8	.2	5.1	.1	39.4	41.7	36.6	.2		55.4	909
DEC		.3	40.6	2.3	14.2	.2	43.8	41.8	35.0	.6		56.5	929
TOTALS		9.0	46.0	.9	5.6	.2	46.2	43.9	41.3	.3	.0	59.1	10646

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# WEATHER CONDITIONS

13773

QUANTICO, VA

67-78

JAN

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER-STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		12.1		2.0		13.7	21.8	2.4	.8		24.2	248
	04		7.7	.4	2.0		10.1	23.0	2.0	.4		24.6	248
	07		11.6	.4	1.5		13.4	28.0	1.5			29.1	266
	10		10.7	1.0	3.8		14.9	20.1	7.3			26.3	267
	17		7.6	1.0	5.5		13.6	13.5	4.2			17.6	280
	16		7.6	.4	3.3		10.2	11.6	3.3			14.5	275
	19		10.3	.4	1.6		12.3	16.2	1.6			17.4	253
	22		8.5		1.2		9.7	18.1	1.6			19.8	243
TOTALS			9.6	.4	2.6		12.3	19.0	3.0	.2		21.7	2116

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## WEATHER CONDITIONS

17773

QUANTICO, VA

69-78

FEB

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
FEB	01		9.7	.9	1.3		11.5	13.0	1.4			16.9	224
	04		9.3	.4	2.7		12.4	22.6	2.2			24.3	226
	07		9.6	.4	3.1		13.1	21.8	4.4			25.3	228
	10		8.4	.0	3.4		12.6	14.9	7.3			22.1	262
	13		9.1	.4	3.4		12.9	12.5	6.1	.4		18.9	264
	16	.4	10.2		2.8		13.0	12.6	3.3			15.9	244
	19		12.1		3.0		15.2	16.9	4.8			21.2	251
	22		10.2		3.5		12.8	16.4	2.7			16.6	226
TOTALS		.1	9.8	.4	2.9		12.9	17.1	4.1	.1		20.8	1017

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# WEATHER CONDITIONS

17773

QUANTICO, VA

69-78

MAP

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	01		11.6		1.2		13.0	17.1	2.8			18.7	246
	04		11.7		1.2		12.5	19.8	2.4			21.4	248
	07	.4	13.2		1.2		14.4	25.2	4.8			28.8	250
	10	.3	10.7		3.1		13.4	17.2	7.2			24.1	291
	13	.7	11.3	.3	2.4		13.4	14.7	5.1			19.9	292
	16		9.2	.4	1.8		11.1	10.3	3.3			13.3	271
	19	.4	9.6		.8		10.0	10.4	4.0			14.3	251
	22		9.7		.8		10.5	14.9	3.6			18.1	248
TOTALS		.2	10.9	.1	1.6		12.3	14.2	4.2			19.8	2097

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# WEATHER CONDITIONS

13773

QUANTICO, VA

69-78

APR

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIR	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
APR	01	.4	10.1				10.1	11.3	2.1			13.4	238
	04	.4	7.1				7.1	16.7	2.5			16.8	239
	07	.4	8.1				8.1	17.0	6.5			22.7	247
	10	.4	8.7		.4		9.1	10.9	4.3			15.2	276
	13	.7	8.2		.4		8.2	4.3	4.3			8.6	272
	16	.4	6.6				6.6	4.2	3.1			6.9	259
	19	1.2	5.0	.4			5.4	5.0	2.9			7.9	241
	22		7.1		.4		7.1	7.6	2.1			9.7	238
TOTALS		.5	7.6	.1	.2		7.7	9.6	3.8			12.9	2017

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# WEATHER CONDITIONS

13773

QUANTICO, VA

69-78

MAY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
MAY	01	1.3	11.7				11.7	24.7	10.8			32.0	231
	04		11.0				11.0	35.8	10.2			42.3	246
	07		10.0				10.0	26.8	15.7			39.1	251
	10		10.7				10.7	13.4	16.6			30.3	290
	13		7.3				7.3	7.3	14.2			21.2	258
	16	2.0	11.9				11.9	5.9	13.4			19.4	253
	19	2.1	9.3				9.3	8.0	12.2			19.8	237
	22	3.0	12.6				12.6	19.0	10.8			27.7	231
TOTALS		1.1	10.6				10.6	17.9	13.2			29.0	2057

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# WEATHER CONDITIONS

13773

QUANTICO, VA

69-78

JUN

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	BUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUN	01	1.4	6.2				6.2	32.4	18.6			44.3	210
	04	.8	5.9				5.9	38.5	18.4			44.1	239
	07		5.0				5.0	31.3	28.5			50.9	241
	10		2.6				2.6	6.7	34.8			38.7	252
	13	1.4	5.6				5.6	4.6	29.9			33.5	284
	16	2.4	4.9				4.9	4.0	25.1			28.7	247
	19	3.1	6.6				6.6	8.0	23.0			30.1	226
	22	7.1	9.0				9.0	25.0	22.2			41.0	212
TOTALS		2.0	5.6				6.8	18.8	23.1			39.4	1981

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# WEATHER CONDITIONS

13773

QUANTICO, VA

69-78

JUL

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JUL	01	1.4	6.4				6.4	35.3	30.7			59.6	218
	04	.6	4.1				4.1	48.2	32.2			68.2	245
	07	.7	4.3				4.3	32.6	35.8			56.7	242
	10	.3	3.5				3.5	6.3	43.7			47.9	286
	13	1.4	4.2				4.2	3.2	40.7			43.5	285
	16	4.4	7.2				7.2	2.0	38.6			40.6	249
	19	5.2	9.5				9.5	5.6	33.3			38.5	231
	22	2.7	8.6				8.6	24.8	34.7			54.5	222
TOTALS		2.3	6.0				6.0	19.8	36.2			51.2	2018

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# WEATHER CONDITIONS

13773

QUANTICO, VA

69-78

AUG

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
AUG	01	1.8	6.0				6.0	46.5	30.4			64.5	217
	04		4.5				4.5	54.3	29.6			66.8	247
	07		3.1				3.1	42.9	32.0			63.4	287
	10		3.8				3.8	10.3	45.2			52.7	292
	13		3.1				3.1	2.4	43.7			45.7	293
	16	2.4	4.3				4.3	3.5	35.4			38.2	254
	19	5.1	8.9				8.9	6.8	36.7			42.6	237
	22	2.7	8.1				8.1	30.3	34.4			54.3	221
TOTALS		1.8	5.2				5.2	24.6	36.8			53.8	2041

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# WEATHER CONDITIONS

13773

QUANTICO, VA

69-78

SEP

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
SEP	01	.5	4.3				4.3	37.1	25.7			53.3	210
	04	1.0	7.6				7.6	42.4	23.8			55.7	210
	07	.4	7.2				7.2	37.8	23.0			50.7	278
	10	.4	7.2				7.2	11.1	30.5			39.1	279
	13		5.4				5.4	3.9	25.1			28.7	279
	16	2.5	5.1				5.1	4.6	19.8			24.5	237
	19	2.3	5.5				5.5	10.9	21.8			31.4	220
	22	1.0	4.8				4.8	25.2	24.3			41.9	210
TOTALS		1.8	5.9				5.9	21.8	24.3			40.7	1923

NAYWEASERVCOM

# WEATHER CONDITIONS

13773

QUANTICO, VA

69-77

OCT

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREQUENT RAIN &/OR DRIZZLE	SNOW AND/OR SLUSH	HAUL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
OCT	01	.5	9.2				9.2	36.9	12.4			43.3	217
	04		8.8				8.8	42.3	8.4			46.4	230
	07		10.5				10.5	42.0	10.9			45.9	257
	10	.4	8.5		.4		8.5	21.2	17.8			35.9	259
	11	.4	6.5				6.5	9.2	15.0			21.9	260
	16		3.4				3.4	6.8	11.0			16.5	237
	17		5.8				5.8	12.4	12.9			21.0	224
	22		9.2				9.2	24.9	12.0			31.8	217
TOTALS		.2	7.7		.1		7.7	24.9	12.4			32.8	1910

NAYWEASERVCOM

# WEATHER CONDITIONS

12773

QUANTICO, VA

69-77

NOV

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER  
CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
NOV	01		8.2				8.2	18.7	3.8			21.2	208
	04		8.7		.5		9.1	28.8	3.8			31.2	208
	07		7.8		.9		8.2	32.5	4.3			35.1	231
	10		10.1		.8		10.9	18.6	11.7			28.3	247
	13	.4	10.4		.8		11.2	9.8	9.2			18.9	240
	16	.9	7.8		.4		7.8	9.2	6.0			11.2	232
	17	.8	6.6				6.6	10.8	4.7			13.3	211
	22		7.7				7.7	18.7	8.8			21.4	208
TOTALS		.2	8.4		.4		8.7	17.8	6.2			22.4	1794

NAYWEASRYCOM

# WEATHER CONDITIONS

13773

QUANTICO, VA

69-77

DEC

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HALE	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
DEC	01		9.2		1.8		10.6	24.0	2.8	.5		25.8	217
	04		11.1		2.8		12.9	25.3	1.8			26.3	217
	07		12.7		2.1		14.3	29.7	3.8			28.7	237
	10		12.0		1.9		13.5	19.3	6.6			25.5	259
	13		10.5		2.7		13.2	17.1	3.9	.4		20.9	258
	16		13.7		1.7		15.4	17.8	3.7	.4		21.2	241
	19		14.3		1.8		16.1	18.6	2.2	.4		21.1	223
	22		10.1		1.8		12.0	21.2	2.8	.9		24.0	217
TOTALS			11.7		2.1		13.5	21.2	3.6	.3		24.2	1869

NAYWEASERVCOM

# WEATHER CONDITIONS

13773

QUANTICO, VA

69-70

ALL

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS FROM HOURLY OBSERVATIONS

MONTH	HOURS (L.S.T.)	THUNDER- STORMS	RAIN AND/OR DRIZZLE	FREEZING RAIN &/OR DRIZZLE	SNOW AND/OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND/OR HAZE	BLOWING SNOW	DUST AND/OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO. OF OBS.
JAN	ALL		9.6	.5	2.6		12.3	19.0	3.0	2		21.7	2116
FEB		.1	9.8	.4	2.9		12.9	17.1	4.1	.1		20.8	1917
MAR		.2	10.9	.1	1.6		12.3	16.2	4.2			19.8	2097
APR		.5	7.6	.1	.2		7.7	9.6	3.5			12.9	2017
MAY		1.1	10.6				10.6	17.9	13.2			29.0	2057
JUN		2.0	5.6				5.8	16.8	25.1			39.4	1981
JUL		2.1	6.0				6.0	19.8	36.2			51.2	2014
AUG		1.5	5.2				5.2	24.6	36.0			53.8	2040
SEP		1.0	5.9				5.9	21.6	24.3			40.7	1923
OCT		.2	7.7		.1		7.7	24.5	12.6			32.8	1910
NOV		.2	8.4		.4		8.7	17.8	6.2			22.6	1794
DEC			11.7		2.1		13.5	21.2	3.5	.3		24.2	1869
TOTALS		.7	8.3	.1	.8		9.0	19.0	14.3	.0		30.7	23742

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1773

QUANTICO, VA

JANUARY 1969-SEPTEMBER 197

JANUARY

8

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	15.2		3.4	.7	1.4	8.8			19.6	6.1	2.0	.7		66.2
NNE	12.2		2.0	4.1		6.1			24.8	2.0	6.1			65.3
NE	9.7				6.5	6.5			16.1	3.2	9.7			64.5
ENE	11.1					3.7			18.5	3.7	11.1			70.4
E	5.9		2.9	2.9					8.8	2.9	8.9			73.5
ESE	4.0		4.0	4.0					20.0	8.0	8.0			64.0
SE	6.5	2.2				2.2			6.5	6.5	6.5			76.1
SSE	4.2				2.8	4.2			4.2	2.8	5.6			80.3
S	10.9		1.1	1.1	1.1	2.3			12.1	5.2	5.2			69.0
SSW	3.8			1.3	1.3	1.3			10.1	2.5	2.5			81.0
SW	7.1		2.4						9.5					90.5
WSW	2.4					2.4			4.8		2.4			90.5
W	.2		1.6						3.3	7.4		.8		87.7
WNW	5.4	1.1	1.1			1.1			5.7	.6	1.7			89.7
NW	5.3					1.6			7.4	6.3	2.6			80.5
NNW	4.4	.5	1.9			2.4			8.3	4.4	2.4	.5		84.0
VARIABLE														
CALM														
TOTAL	134	4	30	10	10	47			210	127	65	3		1401
% TOTAL	7.2	.2	1.6	.5	.5	2.5			11.2	6.8	3.5	.2		75.0

TOTAL NUMBER OF OBSERVATIONS

1,869

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1773 QUANTICO, VA JANUARY 1969-SEPTEMBER 197 FERRUARY 8  
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	8.8		2.4	.6	1.6	8.6			15.2	4.0	9.6			67.2
NNE	18.9	1.9	11.3	1.9		13.2			34.0	3.8	5.7			43.4
NE	8.6		15.5	5.2	3.4	3.4			19.0	12.1	6.9			53.8
ENE	15.9	2.3	6.8			4.5			22.7	9.1	6.8			54.5
E	14.3		2.9		2.9	2.9			17.1	2.9	2.9			71.4
ESE	3.7					3.7			7.4	3.7	7.4			81.5
SE	6.7								6.7	3.3	3.3			83.3
SSE	6.1		1.5			3.0			13.6		3.0			80.3
S	5.4	2.4							5.5	7.1	4.2			78.0
SSW	2.2	1.1	1.1					1.1	8.6	1.1	2.2			87.1
SW	5.0	2.5	2.5						12.5	2.5	2.5			80.0
WSW	3.0								6.1	3.0				87.9
W	4.5		1.9						6.1	.9	.9			88.3
WNW	4.5		.6			.6			5.8	4.5	4.5	.6		83.1
NW	2.4	1.0	1.0	.5		2.9			7.3	6.8	1.5			83.4
NNW	5.1		1.1	.6		2.8			10.2	4.5	1.7			80.2
VARIABLE														
CALM	6.4	.6	4.2		.4	.8			12.0	4.6	4.6			64.7
TOTAL	103	12	43	7	6	36		1	198	83	69	1		1277
% TOTAL	8.1	.7	2.6	.4	.4	2.1		.1	11.8	4.9	4.1	.1		76.1

TOTAL NUMBER OF OBSERVATIONS 1,677

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1973  
STATION

QUANTICO, VA  
STATION NAME

JANUARY 1969-SEPTEMBER 197  
YEARS

MARCH  
MONTH

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.7	1.7	1.7	.9		9.4			23.9	5.1	2.6			65.0
NNE	14.0	1.5	16.4	1.5	1.5	4.5			41.8	4.5	7.5			40.0
NE	11.4	3.4	18.2			5.7			37.5	9.1	12.5			37.5
ENE	11.5	3.3	8.2			3.3			31.1	4.9	4.9			52.0
E	12.0		12.5						20.0	5.0	2.5			65.0
ESE	17.5		7.9			1.0			23.8	6.3	3.2			61.9
SE	2.4		3.6						6.0	3.6	2.4			85.0
SSE	7.3	2.1	3.1		1.0	2.1		1.0	12.5	5.2	5.2			71.9
S	5.6	.5	.5			1.0			6.6	3.6	5.6			81.1
SSW	6.3										2.1			91.7
SW	5.6									2.5	2.8			91.7
WSW	2.7	2.5	2.5							2.5	5.0			92.5
W	7.2	3.2				1.1		1.1	1.1	6.3				60.4
WNW	1.0	.6	.6						2.6	3.2	.6			92.2
NW	1.0	1.4	1.4						5.8	3.8	1.9			46.5
NNW	1.6	2.3	2.3			2.3		.5	9.4	3.3	3.8			40.8
VARIABLE														
CALM	4.5	2.8	1.3						15.9	8.4	3.7			67.8
TOTAL	117	30	69	2	2	32		3	237	90	74			1395
% TOTAL	6.2	1.6	3.7	.1	.1	1.7		.2	12.8	4.9	4.0			75.4

TOTAL NUMBER OF OBSERVATIONS

1,849

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

STATION QUANTICO, VA STATION NAME JANUARY 1969-SEPTEMBER 197 YEARS APRIL MONTH 8 HOURS L.S.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.5	1.1	2.2					1.1	14.3					84.6
NNE	14.7	2.1	4.2						16.7	8.3	2.1			66.7
NE	13.3	5.3	3.5					1.8	22.8	5.3	5.3			64.9
ENE	8.9								8.9	5.4	7.1			76.8
E	5.6		2.8						11.1	2.6				83.3
ESE	6.7	6.7							11.1		2.2			70.0
SE	9.1	2.6	2.6			1.3			10.4	3.9	9.1			71.4
SSE	5.1		1.0						4.1	2.0	9.2			82.7
S	2.7	4.5	1.8					.5	3.6	4.5	4.1			83.3
SSW	2.4	6.1							6.1	1.2				86.6
SW									2.4					97.6
WSW	6.7	9.1	2.3							2.3				79.5
W	7.1	2.0						3.0	2.0	2.0				91.3
WNW	1.1	.6	.6			.6		.6	1.7	1.7	2.3			92.3
NW	2.0	1.2	.8						2.6	2.4	2.0			91.6
NNW	4.2	4.2	1.8			.6			7.2	1.2	.6			86.1
VARIABLE														
CALM	1.1	1.1	1.1						6.9	5.4	2.4			80.4
TOTAL	70	44	23			3		7	111	52	58			1499
% TOTAL	1.5	2.5	1.3			.2		.4	6.2	2.9	3.3			84.4

TOTAL NUMBER OF OBSERVATIONS 1,777

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1973 QUANTICO, VA JANUARY 1969-SEPTEMBER 197 MAY 8  
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET " SHOWERS ICE CRYSTALS	SNOW " GRAINS " PELLETS " SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.1	2.2	3.3					1.1	15.2	7.6	13.0			60.9
NNE	21.3	7.0	4.7						23.3	7.0	18.6			46.5
NE	11.4	1.4	1.4					2.9	17.1	8.6	10.0			62.9
ENE	14.5	1.8	9.1						11.8	12.7	20.0			45.5
E	10.8	10.8	1.5					3.1	13.8	10.8	21.5			46.2
ESE	9.8	3.3							13.1	3.3	13.1			67.2
SE	8.2	2.7	.9					.9	8.2	8.2	20.0			60.9
SSE	4.4	3.8						1.3	5.7	7.0	15.8			71.5
S	4.3	1.2							4.7	4.3	17.5			72.0
SSW	8.0	5.0						2.0	2.0	9.0	8.0			77.0
SW	3.3									3.3	6.7			86.7
WSW	3.0									17.5	14.3			67.9
W	7.4	9.2						4.6	2.3	17.2	11.5			63.2
WNW	.7	4.1						2.1	1.4	15.1	13.7			71.2
NW	2.0								5.0	12.7	6.1			76.8
NNW	1.0	2.6	.9					1.8	3.5	7.0	7.0			78.9
VARIABLE														
CALM	2.4	2.8	.5					.5	4.2	15.1	15.1			67.4
TOTAL	177	56	15					20	123	178	247			1233
% TOTAL	5.6	3.1	.8					1.1	6.8	9.8	13.7			63.2

TOTAL NUMBER OF OBSERVATIONS 1,509

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1773 QUANTICO, VA JANUARY 1969-SEPTEMBER 197 JUNE 8  
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	4.4	8.8						2.9	16.2	5.9	22.1			52.9
NNE	2.2	2.8	2.8					2.8	11.1	2.8	16.7			69.4
NE	5.3	4.7	7.0					4.7	16.3	9.3	30.2			46.5
ENE	5.2	1.7	3.6						15.5	5.2	34.5			44.8
E	1.6	3.3	3.3					3.3	9.8	9.8	32.8			49.2
ESE								2.1	4.3	2.1	27.7			68.1
SE		1.3						2.6	2.6	1.3	19.2			74.4
SSE	.6	1.9						1.9	3.8	3.8	34.8			58.9
S	2.2	2.3						2.0	3.2	6.6	29.9			59.2
SSW	1.7	4.2						1.7	2.5	9.2	19.3			68.1
SW	1.9	1.9								9.4	18.9			69.8
WSW		5.3						5.3	7.9	18.4	21.1			55.3
W	3.2	1.9							1.9	9.6	26.9			61.5
WNW		4.7						2.8	1.9	15.9	19.6			63.8
NW		2.0						.7	2.0	22.8	18.1			61.7
NNW	1.6	2.4						1.0	2.9	15.5	20.4			64.1
VARIABLE														
CALM		2.7	.4					1.3	4.9	18.5	24.0			40.4
TOTAL	27	50	9					32	84	212	443			1022
% TOTAL	1.3	2.7	.5					1.8	4.8	12.2	25.4			58.7

TOTAL NUMBER OF OBSERVATIONS 1,741

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

13773

QUANTICO, VA

JANUARY 1969-SEPTEMBER 197

JULY

8

STATION

STATION NAME

YEARS

MONTH

HOURS

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	1.4	3.4						1.7	6.8	10.2	28.8			52.5
NNE		4.2								8.3	33.3			58.3
NE								2.9		5.7	37.1			57.1
ENE	4.0	2.3	2.3						16.3	4.7	32.6			46.5
E	1.7	1.7							11.7	10.0	36.7			46.7
ESE	2.0	7.5						5.0	5.0	7.5	45.0			45.0
SE	2.7	2.7						1.3	1.3	4.0	45.3			48.0
SSE		2.0	.7					1.3	1.3	2.0	44.7			51.3
S	1.4	3.4						2.0	1.7	4.4	40.3			53.6
SSW	1.5	8.1						2.2	2.2	11.0	26.7			57.0
SW		2.5						2.5	7.5	12.5	22.5			60.0
WSW		14.6						4.3		22.9	27.1			39.6
W		13.6						10.2	1.1	9.1	30.7			50.0
WNW	.7	3.2						3.2	3.2	25.6	30.4			49.6
NW	.7	1.0						.5	2.5	21.6	33.3			47.1
NNW	2.0	1.7							1.7	17.5	28.3			55.1
VARIABLE														
CALM														
TOTAL	26	67	2					37	59	256	614			866
% TOTAL	1.0	3.8	.1					2.1	3.3	14.5	34.7			48.9

TOTAL NUMBER OF OBSERVATIONS 1,770

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1773 QUANTICO, VA JANUARY 1969-SEPTEMBER 197 AUGUST 6  
STATION STATION NAME YEARS MONTH HOURS U.S.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	3.3	3.0							11.9	3.0	7.9			76.1
NNE	6.4	10.6	2.1					6.4	2.1	10.6	17.0			59.3
NE	3.4	5.8							7.7	3.8	38.5			50.0
ENE	5.1	3.7	1.9					1.9	3.7	11.1	37.0			48.1
E	5.1	2.1						2.1	2.1	6.0	36.3			53.2
ESE									3.6	3.6	39.3			53.6
SE	1.1									4.8	51.3			41.3
SSE	1.1	1.9						1.1	1.1	3.8	47.3			45.4
S	1.1	3.2						1.1	2.1	7.8	43.6			44.5
SSW	1.1	3.7							4.7	13.2	38.8			46.2
SW		2.3							2.3	16.3	46.5			44.2
WSW		12.2						4.5	7.3	10.6	39.0			36.6
W	1.3	2.7							2.7	12.0	40.0			46.7
WNW	1.1	4.2						2.4	4.2	31.0	27.5			41.5
NW	1.1	3.5						1.8	2.2	34.5	30.5			40.7
NNW		2.7	.7					.7	4.7	27.5	26.2			54.4
VARIABLE														
CALM														
TOTAL	31	63	3					27	77	342	643			804
% TOTAL	1.7	3.5	.2					1.5	4.3	19.0	36.7			44.7

TOTAL NUMBER OF OBSERVATIONS 1,799

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1773 ATLANTICO, VA JANUARY 1969-SEPTEMBER 197 SEPTEMBER 8  
STATION STATION NAME YEARS MONTH HOURS U.S.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	.9	6.3	1.3						6.3	7.5	18.8			63.8
NNE	10.4	6.1							10.2	8.2	20.4			53.1
NE	9.4	1.9	1.9						5.7	5.7	9.4			75.5
ENE	10.7	1.7							12.1	9.2	20.7			58.6
E	5.7	1.5							5.9	10.3	23.0			63.2
ESE			4.3							8.7	30.4			60.9
SE	1.6	1.6							1.6		25.8			71.0
SSE	.4	.8	.8						3.1	3.9	30.3			64.8
S	.4	2.2	.8					.4	3.5	3.9	28.4			62.4
SSW		1.1						2.2	3.3	19.2	40.2			41.3
SW	3.7								3.7	7.4	25.9			63.0
WSW	4.5	4.5						13.6	4.5	18.2	18.2			54.5
W	4.0	4.0						4.0	4.0	16.0	14.0			66.0
WNW	1.4	1.0						1.0	1.9	26.0	19.2			55.8
NW		1.7						.4	3.0	29.2	20.8			58.5
NNW	4.4	4.4	.6					3.1	4.4	11.3	11.9			68.6
VARIABLE														
CALM														
TOTAL		79	7					17	72	280	402			997
% TOTAL		2.3	.4					1.0	4.3	14.9	23.9			59.2

TOTAL NUMBER OF OBSERVATIONS 1,623

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

17773 ATLANTICO, VA JANUARY 1969-SEPTEMBER 197 OCTOBER 8  
STATION STATION NAME YEARS MONTH HOURS U.S.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	5.2	2.1	2.1						13.5	11.5	16.7			62.5
NNE	11.5	4.7	4.3						24.6	7.0	20.9			44.2
NE	13.8	1.1	4.3						23.4	16.0	28.5			39.4
ENE	11.1	1.4	4.1						16.4	9.6	26.0			47.9
E	16.5		3.5						14.0	16.8	19.3			52.6
ESE	3.0								3.8	7.7	7.7			80.8
SE	10.2	4.1	2.0						17.2	16.3	16.3			59.2
SSE	6.9	2.8							8.3	9.7	19.4			66.7
S	2.4	.6	.6						5.4	10.8	19.2			67.1
SSW		1.7							6.3	11.7	16.7			65.0
SW	3.7								3.7	7.4	3.7			81.5
WSW	1.1	11.1								11.1				72.2
W	5.6								2.8	5.6	5.6			86.1
WNW	3.5	.9							2.6	12.2	.9			82.6
NW	1.4		.7						6.8	22.3	8.1			66.2
NNW	6.7	1.7	1.7					1.1	6.7	10.6	5.0			77.8
VARIABLE														
CALM	2.4	.4	.8						11.1	16.3	17.0			51.4
TOTAL	24	19	24					3	188	259	225			1062
% TOTAL	5.1	1.1	1.4					.2	4.8	15.6	13.5			63.9

TOTAL NUMBER OF OBSERVATIONS 1,662

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1773 QUANTICO, VA JANUARY 1969-SEPTEMBER 197 NOVEMBER 8  
STATION STATION NAME YEARS MONTH HOURS L.S.T.

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	4.3	4.2	2.1			1.1		1.1	8.4	3.2	1.1			93.2
NNE	3.3		3.0						27.3	6.1				51.5
NE	14.3		5.7						28.6		14.3			57.1
ENE	2.1					4.5			9.1	9.1	13.6			63.6
E	4.3	4.8	14.3					4.8	33.3	14.3	14.3			38.1
ESE	1.1									11.1	11.1			77.8
SE	16.7								22.2	8.3	16.7			52.8
SSE	7.7	3.2							11.5	11.5	15.4			65.4
S	3.1	3.1							8.7	8.7	8.8			76.2
SSW	1.4								1.4	6.8	4.1			89.2
SW	6.5	2.3							2.3	2.3	6.8			86.4
WSW	2.3	7.0						2.3	4.7	7.0	2.3			79.1
W	3.3	3.3							4.9	1.6	1.6			96.9
WNW	4.4	.7	1.3					.7	4.6	11.8	3.2			79.1
NW	1.4	.4	.4						5.9	7.6	3.0			82.7
NNW	1.1	1.6			.5	1.1			4.2	8.3	3.3			79.4
VARIABLE														
CALM									10.1	14.8	7.3			61.7
TOTAL	96	25	12		1	5		4	124	141	96			1168
% TOTAL	5.5	1.6	.8		.1	.3		.3	8.0	9.1	6.2			75.2

TOTAL NUMBER OF OBSERVATIONS 1,594

HAYWEASERVCOM



PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

1173 CLANTICO, VA JANUARY 1969-SEPTEMBER 197 DECEMBER 8  
STATION STATION NAME YEARS MONTH HOURS (L.S.T.)

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	0.7		7.1		1.8	4.4			15.9	4.4	3.5			69.9
NNE	12.4		7.7			12.8			30.8	7.7	5.1	2.6		48.7
NE	27.1		6.3			4.2			33.3	4.2	6.3			47.9
ENE	17.1		2.9						25.7	2.9	8.6			57.1
E	13.7								25.0	4.2	8.3			54.2
ESE	15.4	15.4							7.7	7.7	7.7			69.2
SE	1.1	3.7							11.1	3.7				77.8
SSE	6.3		2.0						22.0	8.0				68.7
S	6.4	2.3	2.3			.6			10.5	7.0	4.7			73.7
SSW	7.2	1.2	1.2						6.0	3.6	2.4			83.1
SW	2.9	8.8	2.9						5.9	2.9				79.4
WSW	3.3								3.3					96.7
W	8.8		1.8						5.3	1.8	1.8			87.7
WNW	5.4	.7				.7			6.6	6.6	3.7	.7		81.6
NW	4.3		.8		.4	1.6			7.0	7.8	1.9	1.2		82.1
NNW	3.2	.5	.9		1.4	4.2			9.4	2.8	3.8	.5		80.7
VARIABLE														
CALM	4.9	4.3	4.3		3	7			14.1	10.6	4.5			64.8
TOTAL	174	14	28		7	29			199	101	63	6		1204
% TOTAL	7.9	.9	1.7		.4	1.8			12.3	6.2	3.9	.4		74.3

TOTAL NUMBER OF OBSERVATIONS 1,621

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PERCENTAGE FREQUENCY OF WIND DIRECTION  
VS. WEATHER CONDITIONS

17773 QUANTICO, VA JANUARY 1969-SEPTEMBER 197 ALL 8  
STATION STATION NAME YEARS MONTH HOURS

WIND DIRECTION	RAIN	RAIN SHOWERS	DRIZZLE	FREEZING RAIN FREEZING DRIZZLE	SLEET SHOWERS ICE CRYSTALS	SNOW GRAINS PELLETS SHOWERS	HAIL SMALL HAIL	THUNDER	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND AND DUST	NO WEATHER
N	.9	2.3	2.4	.3	.5	3.2		.5	14.8	5.6	8.9	.1		67.6
NNE	14.3	3.4	6.0	.8	.2	3.4		.8	22.2	6.6	11.9	.2		52.7
NE	15.1	2.1	6.2	.5	.6	1.7		.9	20.5	8.0	16.7			52.9
ENE	11.1	1.7	3.6			1.0		.2	16.9	7.2	19.6			54.9
E	7.8	2.4	2.9	.2	.2	.2		1.1	12.6	8.6	20.3			57.1
ESE	6.7	2.4	1.7	.2		.5		.7	10.1	5.0	16.6			66.6
SE	5.4	1.7	.9			.3		.5	6.4	5.6	20.6			65.5
SSE	3.4	1.7	.7		.2	.6		.8	6.0	4.6	23.6			65.2
S	3.4	2.2	.5	.1	.1	.3		.7	5.1	5.7	19.7			67.1
SSW	2.8	3.4	.2	.1	.1	.1		.9	4.5	7.7	15.1			70.6
SW	1.3	1.8	.7					.2	4.2	5.7	11.8			77.2
WSW	2.7	5.9	.5			.2		2.8	3.3	9.6	11.5			70.5
W	1.1	3.4	.5			.1		2.0	3.3	7.0	10.0	.1		76.5
WNW	2.4	1.7	.4			.3		1.0	3.6	11.8	9.9	.1		75.1
NW	1.2	1.0	.5	.0	.0	.5		.3	4.9	14.9	10.5	.1		71.7
NNW	.6	2.0	1.1	.1	.2	1.4		.6	6.8	8.6	8.3	.1		75.7
VARIABLE														
CALM														
TOTAL	.57	423	265	19	26	152		151	1652	2091	2999	10		13925
% TOTAL	4.0	2.0	1.3	.1	.1	.7		.7	7.9	10.0	14.4	.0		66.9

TOTAL NUMBER OF OBSERVATIONS 20,812

HAYWEASERVCOM



PRECIPITATION



NOCD. Federal Building  
Asheville, N. C.

## PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This portion of the Uniform Summary presents in two sets of tables, the daily amounts and extreme values of the following:

PRECIPITATION

DERIVED FROM DAILY OBSERVATIONS

SNOWFALL\*

DERIVED FROM DAILY OBSERVATIONS

SNOW DEPTH

DERIVED FROM DAILY OBSERVATIONS

1. The first table for each of the above presents the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least). The latter statistics above are not presented for the snow depth summary since they would have limited use and may be misleading.
2. The second set of tables for each of the above presents the extreme daily amounts by individual year and month for the entire period of record available. Also provided are the means and standard deviations for each month and annual (all months). The extremes for a month are not printed nor used in computations if one or more observations are missing.

NOTE: Snow depth was recorded and punched at various hours during the period available from U. S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

Air Force Stations	From beginning of record thru 1945	Snow depth at 0800 LST
	Jan 46-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT
U. S. Navy and Weather Bureau Stations	From beginning of record thru Jun 52	Snow depth at 0030 GCT
	Jul 52-May 57	Snow depth at 1230 GCT
	Jun 57-present	Snow depth at 1200 GCT

\* Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.

# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION  
(FROM DAILY OBSERVATIONS)

1973

ANTICO, VA

45-76

STATION

STATION NAME

YEARS

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	4.6	11.4	1.6	5.7	5.4	4.5	6.5	4.6	.7					34.6	930	2.79	5.71	.31
FEB	5.6	12.4	1.4	6.3	4.5	7.7	5.4	5.3	1.7					30.7	948	2.63	6.07	.35
MAR	6.6	12.6	2.7	5.4	4.6	7.6	6.5	6.9	1.2					34.4	992	3.24	6.77	.50
APR	50.6	14.6	7.9	7.3	5.6	6.7	5.4	4.8	2.1					34.6	900	3.01	7.44	.64
MAY	5.4	14.6	7.3	6.6	5.2	8.6	6.5	5.6	1.9					35.6	899	3.39	9.23	.33
JUN	54.6	17.6	2.1	5.0	5.3	6.8	5.4	4.0	2.1	.3	.1			30.6	960	3.27	10.15	.67
JUL	54.6	12.6	2.1	5.8	5.1	6.9	5.7	4.6	2.5	.3				32.6	971	3.66	9.74	1.07
AUG	6.6	11.1	1.2	6.5	3.0	5.8	5.4	4.5	3.1	.6				30.1	930	4.29	11.77	.50
SEP	67.7	9.7	1.7	5.5	7.8	4.0	4.6	4.1	2.3	.4				26.7	930	3.31	13.52	.13
OCT	67.7	11.2	1.4	3.5	2.6	4.6	3.9	3.7	1.7	.2				21.1	930	2.47	5.16	.17
NOV	67.6	10.4	1.7	5.1	3.0	6.7	5.7	3.9	2.4					24.6	900	2.99	6.09	.44
DEC	6.6	12.6	2.2	5.5	3.7	5.5	5.7	4.4	2.4					29.7	961	3.27	7.77	.27
ANNUAL	57.6	17.2	2.6	5.6	4.4	6.6	5.5	4.6	2.0	.1	.0			30.7	11141	3.32		

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# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOWFALL  
(FROM DAILY OBSERVATIONS)

1973 GUALTICO, VA 45-76  
STATION STATION NAME YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
PRECIP.	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	10.0	10.0	2.1	3.2	.0	.3	.5	.3	.5					7.8	863	4.2	26.4	1.1
FEB	10.0	10.1	1.2	2.2	1.3	.7	.2	.6	.2	.1				7.3	819	4.2	16.	.
MAR	.1	6.6	.4	.8	.3	.3	.7	.4	.6					3.3	849	3.2	27.	.
APR	.0	.9	.1	.2			.1							.5	270	.2	4.	.
MAY	100.0														177	.0	.0	.
JUN	100.0														100	.0	.	.
JUL	100.0														100	.0	.	.
AUG	100.0														809	.0	.0	.
SEP	10.0														100	.0	.	.
OCT	7.	.3													970	TRACE	TRACE	.
NOV	7.	1.3	.4		.2	.1		.1			.1			1.	247	1.1	16.	.
DEC	27.	4.8	.6	1.2	.1	.5	.4	.3	.4					4.4	510	3.4	17.	7.1
ANNUAL	4.1	1.2	.5	.6	.2	.2	.1	.1	.1	.	.2			2.	10122	1.3		

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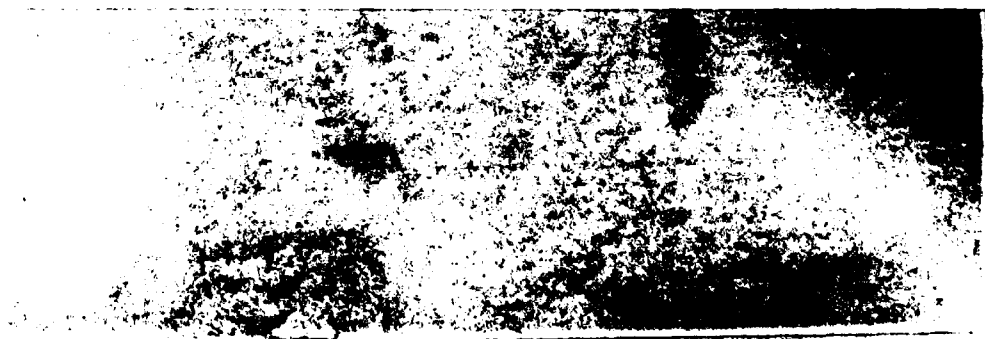
# DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

STATION 777 STATION NAME TICO, VA YEARS 45-76

PRECIP.	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO. OF OBS.	MONTHLY AMOUNTS (INCHES)		
	NONE	TRACE	.01	.02-.05	.06-.10	.11-.25	.26-.50	.51-1.00	1.01-2.50	2.51-5.00	5.01-10.00	10.01-20.00	OVER 20.00			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1-0.4	0.5-1.4	1.5-2.4	2.5-3.4	3.5-4.4	4.5-6.4	6.5-10.4	10.5-15.4	15.5-25.4	25.5-50.4	OVER 50.4					
SNOW- DEPTH	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	61-120	OVER 120					
JAN	.0	.2	4.1	2.2	2.7	1.7	1.5	.2						11.7	506			
FEB	.1	.1	2.1	1.8	1.4	2.2	2.2	.5		.1				10.5	763			
MAR	.1	1.4	.2	.5	.4	1.1	.4							2.5	637			
APR	.0	.0													810			
MAY	.0	.0													775			
JUN	.0	.0													640			
JUL	.0	.0													637			
AUG	.0	.0													576			
SEP	.0	.0													610			
OCT	.0	.0													576			
NOV	.0	.7	.7	.1	.1	.1								.7	750			
DEC	.0	4.7	2.7	1.2	.7	2.0		.2	.1					6.5	899			
ANNUAL	.0	1.4	.7	.5	.4	.6	.7	.1	.7	.3				2.7	9739			

NAVWEASERVCOM



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

1973

0-1100, VA

45-76, 78, 87

STATION

STATION NAME

YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
46			.21	2.74		1.36	1.37	.50	1.01	.48	.78	1.42	
46	.39	.46	.55	1.32	.97	.52	1.14		.82	.66	.75	1.13	
47	.52	.48	.24		.57	1.07	.74	1.61	.99	.83	1.24	.64	
47	1.47	.46	1.07	1.35	1.37	1.28	1.43	2.89	.86	1.40	.53	1.42	2.89
48	1.04	.42	.68	.73	1.49	.87	1.56	1.93	.75	.57	.50	.45	1.93
49	.67		.81	.72	.93	.26		1.39	3.16	.84	.80	1.79	
50	.43	1.28	2.02	.71	.60	2.65	.85		.97	.75	1.65	.94	
51	.91	.65	.79	1.09		.30	1.38	1.82	.84	.26	2.38	.62	
52	1.24	.83	1.15	2.40	1.14	2.66	1.28	.62	.95	3.44	2.39	.87	3.44
53	.64	.75	.81	1.00	.75	.25	2.40	1.38	.47	1.21	.37	1.45	2.47
54	.11	.95	.84	1.46	.70	2.11	2.20	4.39	.28	1.26	.66	.14	4.39
55	.67	.97	1.17	1.32	.83	1.24	1.90	1.15	1.98	1.07	1.47	.64	1.98
56	.85	1.14	.62	.47	.13	1.59	.46	3.52	.83	2.74	.93	1.72	3.52
57	1.82	1.73	1.91	1.17	.90	1.12	1.41	4.70	.89	1.35	1.05	1.76	4.70
58	.77	.52	.75	1.39		2.85	1.96	1.82	1.84		.84	1.22	
59	.88	1.06	.71	1.25	1.99	2.43	.84	1.56	2.14	1.08	.13	.47	2.43
60	.73	1.88	.87	.84	.79	.81	1.52	1.44	.38	1.57	.41	.77	1.88
61	1.07	1.05	.85	.70	1.38	.69	1.09	.79	1.36	.26	1.8	1.17	1.38
62	.64	.46	1.36	.40		2.31	.43	.16	1.41	.05	2.44	.87	
63	1.00	.70	.69	.70	.35	1.33	.64	.72	1.41	.93	.51	1.12	1.41
64	.53	1.00	1.04	.34	.74	1.03	.85	1.52	.67	1.79	.22	.16	1.79
65	.94	.99	1.05	.74	.61	.39	.42	.38	3.16	2.00	.33	.87	3.16
66	1.03	.87	.69	.27	.56	.42	1.29	.74	.10	.45	.60	.77	1.29
67	.85	.23	1.34	.35	.93	1.20	2.76	2.42	2.19	.91	1.47	.72	2.76
68	.00	1.01	.65	.49	.63	.43	2.24	1.38	.46	.78	.69	1.59	2.24
69	.64	.27	.64	1.84	.90	.43	1.21	.72	1.33	1.47	2.41	.95	2.41
70	.77	1.40	1.21	1.73	1.65	.81	.83	4.37	.75	1.87	1.44	1.24	4.37
71	.60	1.11	.57	1.33	1.13	5.01	.79	.66	.99	1.53	1.60	1.20	5.01
72	.63	1.54	.57	1.34	.79	.94	2.93	2.52	1.81	1.29	.45	1.61	2.93
73	1.25	.23	1.12	1.35	1.33	1.43	1.23	1.67	2.14	.42	.78	2.40	2.40
MEAN													
S.D.													
TOTAL OBS.													

SMOS



**NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA**

## EXTREME VALUES

### PRECIPITATION

(FROM DAILY OBSERVATIONS)

1779  
STATION

0. 2150. VA  
STATION NAME

45-76, 78, 87 YEARS

24 HOUR AMOUNTS IN INCHES

[illegible]

## SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

PRECIPITATION  
(FROM DAILY OBSERVATIONS)

1773 STATION 0 ANTICO, VA 45-76, 78, 82 YEARS

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45		.51 24			1.13 70								PRECIP DAYS
46								1.50 71					PRECIP DAYS
47				.51 20									PRECIP DAYS
48		.64 24					1.56 79						PRECIP DAYS
49								.60 71					PRECIP DAYS
50					1.24 70					.94 30			PRECIP DAYS
51					.14 70								PRECIP DAYS
52											1.22 27		PRECIP DAYS
76	1.24 30			.86 28					2.54 29	3.43 26	.83 21	1.26 21	PRECIP DAYS
77									.50 1				PRECIP DAYS
78		TRACE 11	.39 23	1.59 21	.24 20	.11 22	.67 21	.45 19	TRACE 21	1.26 20	.65 17	TRACE 22	PRECIP DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL  
(FROM DAILY OBSERVATIONS)

17773  
STATION

CAULFIELD, VA  
STATION NAME

85-76, 78, 82  
YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
40								.0		.0	TRACE		
41	.7	.3		.1			.0		.0	.0	.0	3.0	
42		5.0	2.3		.7	.0	.0	.0	.0	.0	.0	2.2	
43			.7	.0	.0	.0	.0	.0	.7	.0	.0	.5	
44	.4	.2		.3	.5	.0	.0		.7	.0		TRACE	
45	TRACE		9.7	.0	.0	.0		.0	.0	.0	3.0	4.0	
46	.6	2.0	TRACE	.0	.0	.0	.0		.0	.0	TRACE	5.1	
47	TRACE	TRACE	TRACE	.3		.0	.0	.0	.7	.0	TRACE	TRACE	
48	.4	.3	.9	TRACE	.0	.0	.0	.0	.0	.0	16.7	TRACE	16.7
49	4.7	.3	TRACE	TRACE	.7	.0	.0	.0	.0	TRACE	TRACE	TRACE	4.0
50	1.7	2.4	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	2.4
51	.7	TRACE	.7	.3	.0	.0	.0	.0	.0	.0		TRACE	
52	3.2	1.7	.3	.5	.7	.0	.0	.0	.0	.0	.0	6.4	6.8
53	.2	9.9	6.1	.7	.0	.0	.0	.0	.0	.0	.0	1.5	9.9
54	1.8	TRACE	TRACE	4.0		.3	.0	.0	.0	.0	TRACE	TRACE	
55	TRACE	3.8	7.1	.0	.7	.0	.0	.0	.0	.0	TRACE	4.2	7.1
56	6.9	11.9	TRACE	.0	.0	.0	.3	.0	.0	.0	.0	1.6	11.5
57	2.7	2.7	4.2	.0	.0	.0	.0	.0	.7	.0	TRACE	6.0	6.0
58	.8	2.8	.8	.0		.0	.0	.0	.0	.0	TRACE	8.7	
59	4.7	6.7	3.2	.3	.7	.0	.0	.0	.0	.0	TRACE	TRACE	6.0
60	4.7	3.7	1.8	.0	.7	.0	.0	.0	.0	.0	.0	.4	6.7
61	9.4	5.1	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	8.7	9.4
62	1.3	8.0	TRACE	.0	.7	.0	.0	.0	.0	.0	.0	3.0	8.0
63	5.2	2.0	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	5.0
64	TRACE	1.8	5.7	.0	.0	.0	.0	.0	.0	.0	TRACE	.6	5.7
65	4.4	1.9	TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	3.3	4.4
66	4.7	1.7	4.7	1.0	.0	.0	.0	.0	.0	.0	TRACE	TRACE	4.7
67	TRACE	3.7	.0	TRACE	.7	.2	.0	.0	.0	TRACE	.2	TRACE	3.0
68	TRACE	TRACE	TRACE	TRACE	.7	.0	.0	.0	.0	.0	.0	3.5	3.5
69	TRACE	2.9	TRACE	.0	.0	.0	.0	.0	.0	.0	.0	TRACE	2.9
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW FALL  
(FROM DAILY OBSERVATIONS)

17773 CHARLOTTE, VA 45-76, 78, 82  
STATION STATION NAME YEARS

24 HOUR AMOUNTS IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
75	1.8	4.5	TRACE	.	.1	.1	.1	.1	.1	.1		TRACE	
76		TRACE	TRACE		.1	.1	.1	.1					
77													
78													
79													
80													
81													
82													
83													
84													
85													
86													
87													
88													
89													
90													
91													
92													
93													
94													
95													
96													
97													
98													
99													
00													
MEAN	2.38	2.79	1.64	.27	.00	.00	.00	.00	.00	TRACE	.98	2.15	6.49
S.D.	2.424	3.012	2.634	.760	.000	.000	.000	.000	.000	.000	3.330	2.752	3.521
TOTAL OBS.	868	819	899	870	637	600	630	849	900	930	840	930	10622

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOWFALL  
(FROM DAILY OBSERVATIONS)

1973  
STATION

CLINTON, VA  
STATION NAME

45-76, 78, 82  
YEARS

24 HOUR AMOUNTS IN INCHES  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45		1.4					.0		.0			3.0	SNOWFALL DAYS
46		2.4	.0	.0	.0	.0	3.0		2.7			2.7	SNOWFALL DAYS
47	2.6		.0		.0	2.9		3.0					SNOWFALL DAYS
48	4.0	2.0											SNOWFALL DAYS
49	3.0	2.7											SNOWFALL DAYS
50			TRACE					.0			TRACE		SNOWFALL DAYS
51			2.9					2.0			2.9		SNOWFALL DAYS
52													SNOWFALL DAYS
53								.0					SNOWFALL DAYS
54								2.0					SNOWFALL DAYS
55											TRACE		SNOWFALL DAYS
56											2.9		SNOWFALL DAYS
57					.0					.0			SNOWFALL DAYS
58					.0					3.0			SNOWFALL DAYS
59					.0								SNOWFALL DAYS
60					.0						TRACE		SNOWFALL DAYS
61											2.7		SNOWFALL DAYS
62	TRACE			.0					.0	.0	TRACE	1.0	SNOWFALL DAYS
63	3.0			2.8					2.9	2.6	2.1	2.1	SNOWFALL DAYS
64									.0				SNOWFALL DAYS
65									1				SNOWFALL DAYS
66				TRACE	.0	.0	.0	.0	.0	.0	.0	TRACE	SNOWFALL DAYS
67		1.4	2.3	2.1	2.0	2.2	2.1	1.9	2.1	2.0	1.7	2.2	SNOWFALL DAYS
68													
69													
70													
71													
72													
73													
74													
75													
76													
77													
78													
79													
80													
81													
82													
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

1973

ASHEVILLE, VA

45-76, 78, 87

STATION

STATION NAME

YEARS

DAILY SNOW DEPTH IN INCHES

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45													
46													
47													
48													
49		1	2										
50													
51													
52		1	1										
53	TRACE	TRACE	TRACE										
54	TRACE			TRACE									
55	TRACE												
56	TRACE											TRACE	
57		TRACE											
58	TRACE	40	TRACE									1	40
59	TRACE			TRACE									
60													
61	1	18											
62													
63		TRACE	TRACE										
64				TRACE									
65													
66	22												
67													
68			10										
69		TRACE											
70													
71				TRACE									
72													
73	TRACE												
74													
MEAN													
S. D.													
TOTAL OBS.													

SMOS

## EXTREME VALUES

STATION	STATION NAME	YEARS
17773	QUANTICO, VA	45-76, 78, 82

DAILY SNOW DEPTH IN INCHES

<b>MONTH YEAR</b>	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
'75						.0	.0	.0	.0	.0			
'76		*TRACE	*TRACE			.0	.0	.0					
'77													
MEAN	3.9	4.2	1.4	*TRACE	.	.8	.5	.0	.5	.0	.4	2.0	4.4
S.D.	4.893	4.598	2.662	.000	.000	.000	.000	.000	.000	.000	1.193	6.164	9.043
TOTAL OBS.	806	763	837	817	775	840	837	836	810	806	750	899	4738

## SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SNOW DEPTH  
(FROM DAILY OBSERVATIONS)

1773

CATICO, VA

45-76, 78, 80

STATION

STATION NAME

YEARS

DAILY SNOW DEPTH IN INCHES  
(BASED ON LESS THAN FULL MONTHS)

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
41		5	0	0	0	0	1	0	0		0	0	SNOW DEPTH DAYS
42		0	1		0	29		20	0	0	0	0	SNOW DEPTH DAYS
43	0	0	0	0	0	1	0	0	0	0	1		SNOW DEPTH DAYS
44	3	0	0	0	0	0	0	0		0			SNOW DEPTH DAYS
45			TRACE 29					0			TRACE 28		SNOW DEPTH DAYS
46		0 27		27			29			30			SNOW DEPTH DAYS
47							0	30	29				SNOW DEPTH DAYS
48	TRACE 27												SNOW DEPTH DAYS
49											29		SNOW DEPTH DAYS
50					0					0			SNOW DEPTH DAYS
51					0								SNOW DEPTH DAYS
52											27		SNOW DEPTH DAYS
53	0			28					0	26	21	21	SNOW DEPTH DAYS
54									1				SNOW DEPTH DAYS
55		1	TRACE 23	21	20	22	21	19	21	20	17	22	SNOW DEPTH DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

13773

ASHEVILLE, VA

1944-1976 1983-1983

STATION

STATION NAME

YEARS

JANUARY  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.00		23 1948	4.0	102	1971
2	0.34		9 1972	T	T	1968*
3	0.58		22 1960	T	T	1970*
4	0.72		18 1971	T	T	1952*
5	1.24		31 1989	T	T	1957*
6	1.07		27 1962	1.5	38	1968
7	0.54		14 1976	1.9	48	1975
8	0.46		12 1953	T	T	1976*
9	0.00		23 1964	2.2	56	1957
10	0.71		23 1952	2.5	51	1962
11	0.27		7 1974*	1.2	30	1954
12	0.67		17 1950	4.0	102	1964
13	1.47		37 1948	3.0	76	1964
14	1.02		46 1958	1.8	46	1957
15	0.73		20 1961	5.0	127	1968
16	0.60		15 1959	2.5	64	1965
17	0.64		16 1970	1.0	25	1971
18	0.31		6 1969	T	T	1965*
19	0.5		15 1975	5.0	127	1961
20	0.5		15 1947	8.0	112	1970
21	1.54		39 1949	0.3	8	1946
22	0.56		16 1954	4.0	102	1954
23	0.33		1 1965	0.3	8	1968
24	0.20		33 1953	4.0	102	1968
25	0.02		23 1958	T	T	1968*
26	1.20		32 1976	9.4	239	1966
27	1.07		27 1976	1.0	25	1959
28	0.57		22 1952	0.2	5	1946
29	0.7		22 1966	8.7	221	1966
30	0.77		20 1966	7.7	196	1966
31	0.61		15 1949	0.8	20	1963
Monthly	1.82		46 1958	9.4	239	1966

FEBRUARY  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.74		19 1957	1.4	36	1962
2	1.54		39 1973	2.2	56	1975
3	0.99		25 1972	0.5	13	1971
4	0.49		12 1956	4.5	114	1975
5	0.80		21 1967	1.0	25	1948
6	0.92		23 1955	1.0	25	1949
7	1.40		36 1971	5.3	135	1967
8	1.88		49 1961	11.5	292	1961
9	0.97		25 1970	2.7	69	1962
10	0.50		15 1970	1.1	28	1964
11	0.60		15 1964	6.0	152	1964
12	0.55		14 1975	3.9	99	1961
13	1.11		28 1971	3.8	97	1967
14	0.90		23 1983	9.0	229	1983
15	1.02		26 1958	9.9	251	1959
16	0.65		17 1952	2.2	56	1962
17	0.80		20 1967	8.7	223	1967
18	1.06		27 1960	1.0	25	1967
19	0.77		20 1972	1.6	41	1972
20	0.48		12 1947	5.0	127	1947
21	0.82		21 1954	0.5	13	1960
22	1.16		29 1971	2.0	51	1948
23	1.01		26 1969	2.4	61	1972
24	1.09		25 1966	5.1	130	1966
25	0.82		21 1960	3.1	79	1950
26	1.14		20 1957	0.9	23	1950
27	0.75		19 1962	T	T	1973
28	0.56		14 1966	3.0	76	1964
29	0.23		6 1968	2.0	51	1968
30						
31						
Monthly	1.88		48 1961	11.5	292	1961

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

STATION 777 CANTICO, VA  
STATION NAME

1945-1976 1982-1983  
YEARS

MARCH  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.5	17	1954	5.7	145	1969
2	0.5	15	1948	2.6	66	1969
3	0.21	31	1971	7.1	180	1967
4	0.2	21	1945			1971*
5	1.00	26	1965	4.2	107	1962
6	0.01	26	1963	2.2	56	1962
7	0.00	25	1944	4.7	119	1969
8	0.4	16	1954	2.3	59	1949
9	0.39	25	1973	7.8	198	1954
10	0.40	10	1949	2.9	74	1967
11	1.30	35	1963	0.8	20	1963
12	1.34	34	1968			1968
13	0.7	53	1951	3.8	97	1958
14	0.1	28	1956			1970*
15	0.01	21	1953			1970*
16	0.3	16	1956	8.3	203	1950
17	0.5	14	1972	0.2	5	1963
18	0.6	17	1949	0.7	18	1956
19	1.01	49	1958	8.0	203	1958
20	0.04	26	1958	5.1	206	1958
21	0.2	27	1983	0.2	5	1963*
22	0.87	22	1961			1964
23	0.73	20	1952			1967
24	0.13	29	1953			1965*
25	0.3	18	1953			1957*
26	0.05	17	1965	4.7	119	1971
27	0.4	14	1958	0.3	13	1947
28	1.04	29	1983			1959
29	0.1	21	1974			1970
30	0.99	25	1974	3.2	81	1964
31	0.44	24	1976			1964
Monthly	0.0	53	1951	4.1	206	1958

APRIL  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.33	34	1948	0.3	5	1964
2	1.4	47	1970			
3	1.25	32	1967			
4	0.70	18	1973			1954
5	1.04	26	1967			
6	2.40	61	1953	1.0	25	1971
7	0.91	23	1972			1972*
8	1.39	35	1974			1972
9	0.37	9	1982			1982
10	0.63	15	1958			
11	1.80	46	1983			1973
12	0.91	23	1959	4.0	102	1959
13	1.00	25	1953	0.5	13	1957
14	1.44	47	1970			
15	0.87	22	1983			
16	1.50	38	1953			
17	2.34	59	1948			
18	0.41	10	1960			
19	1.55	39	1982			
20	0.62	16	1970			1953
21	0.59	15	1958			1953
22	1.73	34	1972			
23	0.71	18	1970			
24	0.72	18	1955			
25	1.46	42	1983			
26	0.65	17	1982			
27	1.34	34	1973			
28	0.70	18	1957			
29	0.70	18	1964			
30	0.84	21	1953			
31						
Monthly	2.40	61	1953	4.0	102	1959

\* ALSO ON EARLIER YEARS  
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

STATION 1772 STATION NAME CRANTICO, VA

YEARS 1945-1976 1982-1987

STATION

STATION NAME

YEARS

MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.14	30	1976			
2	1.47	38	1949			
3	0.77	20	1972			
4	0.90	23	1958			
5	0.34	6	1958			
6	0.4	14	1953			
7	1.42	34	1949			
8	1.09	51	1967			
9	0.77	20	1974			
10	0.27	7	1944*			
11	0.15	14	1961			
12	1.37	34	1974			
13	1.46	42	1971			
14	0.53	21	1946			
15	0.27	24	1950			
16	1.55	47	1983			
17	1.17	29	1945			
18	0.67	17	1944			
19	1.10	29	1953			
20	1.22	31	1971			
21	0.1	21	1957			
22	0.47	12	1967*			
23	0.60	15	1951			
24	0.40	23	1970			
25	0.27	7	1947			
26	1.07	35	1962			
27	0.77	22	1968			
28	0.12	20	1950			
29	1.04	39	1971			
30	1.41	36	1971			
31	1.00	25	1971			
Monthly	1.09	51	1967			

MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.59	15	1954			
2	2.55	72	1950			
3	2.31	59	1963			
4	0.35	9	1946			
5	1.21	31	1957			
6	0.62	16	1972			
7	0.65	24	1963			
8	0.85	22	1951			
9	0.93	24	1951			
10	1.39	35	1945			
11	0.11	54	1955			
12	1.20	30	1968			
13	1.68	43	1960			
14	2.43	62	1960			
15	1.08	27	1948			
16	0.51	13	1948			
17	0.80	20	1949			
18	0.74	24	1976			
19	0.65	17	1948			
20	1.12	24	1958			
21	5.01	127	1972			
22	2.65	67	1951			
23	1.43	36	1970			
24	1.73	34	1964			
25	0.25	7	1957			
26	0.72	13	1975			
27	0.94	24	1973			
28	2.46	68	1953			
29	0.47	22	1944			
30	0.25	14	1951			
31						
Monthly	5.01	127	1972			

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY EXTREME AMOUNTS

STATION 773 STATION NAME CANTICO, VA

YEARS 1947-1976 1982-1983

JULY  
MONTH

AUGUST  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.73	44	1973			
2	1.76	70	1968			
3	1.78	10	1965			
4	1.70	43	1956			
5	1.34	34	1945			
6	1.02	26	1961			
7	1.74	21	1976			
8	1.78	35	1952			
9	1.21	31	1970			
10	1.66	13	1959			
11	1.76	22	1975			
12	1.74	50	1959			
13	1.67	93	1975			
14	1.27	33	1967			
15	1.04	50	1950			
16	1.00	20	1952			
17	1.75	22	1956			
18	1.40	61	1954			
19	1.67	17	1947			
20	1.71	38	1959			
21	1.17	59	1963			
22	1.27	32	1955			
23	1.43	36	1948			
24	1.20	56	1955			
25	1.51	13	1961			
26	1.23	31	1974			
27	1.57	15	1960			
28	1.24	57	1969			
29	1.72	44	1959			
30	1.74	21	1960			
31	1.30	33	1948			
Monthly	1.87	93	1975			

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.65	47	1948			
2	1.74	47	1973			
3	1.38	35	1960			
4	2.14	54	1971			
5	1.33	35	1954			
6	1.50	46	1946			
7	2.79	20	1962			
8	1.82	46	1959			
9	1.52	13	1959			
10	2.38	10	1954			
11	1.70	51	1948			
12	4.39	112	1958			
13	1.56	40	1960			
14	1.11	28	1974			
15	2.78	22	1947			
16	2.53	24	1952			
17	2.69	15	1974			
18	1.93	49	1949			
19	2.89	73	1948			
20	1.51	41	1947			
21	2.52	64	1973			
22	1.21	31	1946			
23	1.44	37	1961			
24	4.70	119	1954			
25	3.52	89	1957			
26	1.16	29	1961			
27	4.37	111	1971			
28	2.68	17	1969			
29	2.92	23	1957			
30	2.71	18	1975			
31	1.52	46	1952			
Monthly	4.70	119	1958			

\* ALSO ON EARLIER YEARS  
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY EXTREME AMOUNTS

1977 ATLANTIC, VA  
STATION STATION NAME

1947-1976 1978-1978 9999-9999  
YEARS

SEPTEMBER  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.24	47	1959			
2	1.29	23	1951			
3	1.27	47	1974			
4	1.34	9	1962			
5	1.01	24	1953			
6	1.14	54	1974			
7	1.27	9	1948			
8	1.04	1	1969			
9	1.14	40	1957			
10	1.14	56	1968			
11	1.70	43	1967			
12	1.14	54	1967			
13	1.13	29	1983			
14	1.14	57	1966			
15	1.90	23	1963			
16	2.04	65	1976			
17	1.07	25	1945			
18	1.04	26	1975			
19	1.1	21	1960			
20	1.03	21	1966			
21	1.0	27	1966			
22	1.04	21	1952			
23	1.01	49	1975			
24	1.06	24	1975			
25	1.74	70	1975			
26	1.5	116	1975			
27	1.04	50	1956			
28	1.0	13	1959			
29	1.01	36	1964			
30	1.26	42	1959			
31						
Monthly	1.5	116	1975			

OCTOBER  
MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	0.90	23	1958			
2	1.29	33	1973			
3	0.66	17	1976			
4	0.61	15	1956			
5	1.40	36	1949			
6	2.74	70	1957			
7	1.79	45	1965			
8	1.23	31	1955			
9	0.89	23	1976			
10	1.27	47	1971			
11	0.30	8	1951			
12	1.00	25	1983			
13	1.19	30	1983			
14	1.26	32	1955			
15	1.47	37	1970			
16	0.93	24	1964			
17	0.98	25	1975			
18	0.61	15	1966			
19	2.00	51	1966	T	T	1972
20	1.03	77	1976			
21	1.57	40	1961			
22	1.35	34	1958			
23	1.10	28	1971			
24	2.37	60	1983			
25	1.26	32	1982			
26	0.46	12	1946			
27	0.18	5	1956			
28	1.03	39	1972			
29	1.44	87	1953			
30	0.83	21	1954			
31	0.25	6	1949			
Monthly	1.44	87	1953	T	T	1972

\* ALSO ON EARLIER YEARS  
T - TRACE, AN AMOUNT TOO SMALL TO MEASURE  
BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

DAILY EXTREME AMOUNTS

17773

QUANTICO, VA

1945-1976 1978-1978 9999-9999

STATION

STATION NAME

YEARS

NOVEMBER

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	1.71	33	1956			
2	1.55	42	1951			
3	1.71	27	1962	T	T	1951
4	1.71	39	1970	T	T	1970
5	1.61	17	1962	T	T	1962
6	1.64	62	1963	16.7	424	1953
7	1.42	41	1951	0.1	3	1953
8	1.14	29	1972			
9	1.04	27	1962			
10	1.71	19	1968	T	T	1968
11	1.41	61	1971			
12	1.47	37	1963	T	T	1971
13	1.49	10	1949	T	T	1975
14	1.61	41	1972	T	T	1969
15	1.61	41	1983	T	T	1976*
16	1.11	5	1983			
17	1.47	37	1956	T	T	1967
18	1.60	15	1962			
19	1.71	34	1972	0.4	10	1961
20	1.71	53	1952	1.6	41	1961
21	1.71	26	1952	T	T	1967
22	1.64	16	1965	0.2	5	1972
23	1.62	23	1963			1954*
24	1.64	37	1971	T	T	1971*
25	1.68	48	1983	3.0	76	1950
26	1.71	13	1951	T	T	1956*
27	1.27	7	1948	T	T	1953
28	1.71	21	1948	1.5	38	1950
29	1.34	34	1963	T	T	1976*
30	1.72	18	1972	6.0	152	1967
31						
Monthly	2.44	62	1963	16.7	424	1953

DECEMBER

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1	2.40	61	1974	T	T	1956*
2	0.17	4	1968	T	T	1956*
3	1.42	36	1948	T	T	1969*
4	1.79	45	1950	6.8	173	1957
5	1.15	29	1973	T	T	1954*
6	1.91	23	1962	T	T	1962
7	1.29	33	1971	T	T	1975*
8	1.20	30	1972	T	T	1976*
9	1.15	29	1973	0.6	15	1961
10	1.59	40	1969	4.0	102	1950
11	0.42	11	1960	4.2	107	1960
12	1.22	31	1959	2.2	56	1960
13	1.23	31	1950	4.2	107	1966
14	0.88	22	1951	4.6	117	1951
15	1.02	26	1948	T	T	1973*
16	1.45	37	1974	3.3	84	1973
17	0.50	13	1973	3.5	89	1973
18	0.94	24	1951	5.1	130	1951
19	0.23	6	1945	3.5	89	1945
20	1.72	44	1957	1.7	43	1966
21	1.61	41	1973	4.9	124	1962
22	1.42	36	1969	0.3	8	1969*
23	0.87	22	1963	8.7	221	1963
24	0.87	22	1966	8.7	221	1966
25	1.42	36	1945	6.9	175	1962
26	1.17	30	1957	2.2	56	1947
27	1.12	28	1964	T	T	1968*
28	0.49	12	1967	1.9	48	1966
29	1.76	45	1958	1.8	46	1962
30	1.00	25	1964	T	T	1959
31	1.55	39	1973	3.3	84	1970
Monthly	2.40	61	1974	8.7	221	1966*

\* ALSO ON EARLIER YEARS

T - TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

WINGS (IPC)

NOCN, Federal Building  
Asheville, N. C.

## PART C

## SURFACE WINDS

Presented in this part are various tabulations of surface winds as follows:

1. Extreme Values - Peak Gusts: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with < 90% observations reported is also provided.

NOTE: According to Circular N specifications, "peak gust data are recorded only at stations with continuous instantaneous wind-speed recorders."

2. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

a. Three tables are prepared for all surface winds included, and for all years combined as follows:

- (1) Annual - all hours combined
- (2) By month - all hours combined
- (3) By month - by standard 3-hour groups

- b. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 2-1/2 miles inclusive with ceiling equal to or greater than 200 feet.



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS  
(FROM DAILY OBSERVATIONS)

17773

ASHEVILLE, VA

45-76, 78, 87

STATION

STATION NAME

YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45					44WSW 38		NNW 39	ENE 32NW	29W	34NW			
46	32NW	47SSW 40NW	38SE	41SW	41NW	43W	37NW	30NW	36NW	32NW	45		47
47	45SW 48NW	38W	56NW 38			55W 48NE	31NW	31F	32NW	41NW	34		
48	39W	45SSW 44NW	42NW	40NW	41W	49NE	34W	37NW	32W	44NW	44		49
49	45S	42NW	50S	45	49SE	36NW	39SE	66NE	39SS	27NW	37		46
50	43	38NW	42N	38NW	32	30W	40NW	33		ESE 44SE	51		
51				45W 44NW	32		63NW	37NW	30NW	25W	36NW	34	
52		41NW	47W	36		35W	40SW	39ESE	44NW	47E	52NW	39	
53	NW	47W	38WSW	44SW	41N	45SW	43S	46SE	37NW	38NW	34W	32SSW	44
54		42NW	42S	47SW	37W	31		NW	46SE	62W	39NW	38	
55	37NW	36S	44			34NE	38N	40NW	28				
56				NW	42NW	35SW	29N	29W	32NE	36NE	26SSW	34NW	34
57	NW	46NW	30W	34NW	42NW	28S	38W	36NE	22W	24NW	33S	34S	36
58	NE	33NW	39NW	29SSE	38NW	65WSW	41W	35NW	37NW	31NW	34NW	36NE	29
59		33NW	29W	33W	33WSW	27NW	27S	30NW	26N	24SW	19NW	27NW	26
60	NNW	25NW	35W	34NW	26NW	32SSW	21NW	17SSW	30N	33W	32NW	34NW	41
61	NNW	53NW	43NW	39SSE	33NW	33NW	27W	28NW	24NE	27NW	28W	41NW	32
62	NE	37NW	39NE	38W	30NW	33NW	25W	40NW	27NW	31W	33S	42W	36
63	NNW	34W	41S	31NW	40NW	38NW	32NW	25NW	33NW	26W	36W	36W	30
64	NW	32NW	41SW	50SSW	32W	28NW	27NW	28NW	22W	28W	28NW	32NW	35
65	N	40S	43W	33W	33NW	27NE	46NW	32W	42S	28W	36W	36W	37
66	NW	39W	30W	37W	29N	33W	42NW	34W	28NW	25N	39W	34SSW	24
67	NNW	39W	40W	44N	36NW	38N	26NW	41N	28N	32NW	31W	35W	32
68	E	37NW	40W	47SW	36F	27S	44N	28W	32				43
69	N	31NW	37W	32NW	32SW	27S	40W	41W	39	N	24W	35NW	37
70	NW	34W	35W	40WSW	35NW	29W	29NW	33SSW	24NW	32NW	26NW	27W	37
71	E	4114	2730	3732	3404	2427	4131	3621	3416	2414	2430	4233	51
72	35	3727	4311	3527	3409	3329	3830	3016	2030	2927	2927	3425	32
73	27	3229	4018	4225	3031	3016	2506	3718	2916	2535	2750	3501	32
74	34	2822	3833	3531	3234	3131	2935	2333	3732	2933	2832	3008	37
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WIND  
(FROM DAILY OBSERVATIONS)

1973 STATION NO. 10100, VA 45-76, 78, 82  
STATION STATION NAME YEARS

DAILY PEAK GUSTS IN KNOTS

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
1	34	46	33	27	31	29	34	64	28	35	21	55	
2	31	29										22	37
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
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23													
24													
25													
26													
27													
28													
29													
30													
31													
MEAN	37.4	37.3	39.3	37.7	35.7	35.1	36.0	33.1	31.2	31.7	36.3	36.3	46.3
S.D.	4.517	5.873	6.808	7.009	8.422	7.990	9.207	8.758	6.173	6.240	5.400	6.673	7.993
TOTAL OBS.	662	779	861	861	857	835	859	889	798	832	936	969	10218

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

SURFACE WINDS  
(FROM DAILY OBSERVATIONS)

1773 STATION QUANTICO, VA 45-76, 78, 87 YEARS

DAILY PEAK GUSTS IN KNOTS  
BASED ON LESS THAN 90% OBSERVATIONS FOR MONTH

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45		CAL					NNW 33						WIND DAYS
47					NNW 37	SE 17							WIND DAYS
48									36	36			WIND DAYS
49									26	26			WIND DAYS
50	33N	47E	39			SSW 45							WIND DAYS
51	27	23	18			2							WIND DAYS
52	25												WIND DAYS
53						NW 24	NW 19	50					WIND DAYS
54				N 30	WS 48					NE 14	NW 20		WIND DAYS
55	25	22	26		21	26				1	7		WIND DAYS
56													WIND DAYS
57													WIND DAYS
58													WIND DAYS
59													WIND DAYS
60													WIND DAYS
61													WIND DAYS
62													WIND DAYS
63													WIND DAYS
64													WIND DAYS
65													WIND DAYS
66													WIND DAYS
67													WIND DAYS
68													WIND DAYS
69													WIND DAYS
70													WIND DAYS
71													WIND DAYS
72													WIND DAYS
73													WIND DAYS
74													WIND DAYS
75													WIND DAYS
76													WIND DAYS
77													WIND DAYS
78													WIND DAYS
79													WIND DAYS
80													WIND DAYS
81													WIND DAYS
82													WIND DAYS
83													WIND DAYS
84													WIND DAYS
85													WIND DAYS
86													WIND DAYS
87													WIND DAYS
88													WIND DAYS
89													WIND DAYS
90													WIND DAYS
91													WIND DAYS
92													WIND DAYS
93													WIND DAYS
94													WIND DAYS
95													WIND DAYS
96													WIND DAYS
97													WIND DAYS
98													WIND DAYS
99													WIND DAYS
100													WIND DAYS
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME STATION NAME YEAR 1977 MONTH JAN  
CLASS ALL WEATHER  
CONDITION 31  
HOURS (L.S.T.)

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	5.1	2.9	.0								9.7	4.4
NNE	.0	.0	.0									1.0	4.0
NE		.0										.0	4.0
ENE		.0										.0	4.0
E		.0										.0	5.5
ESE													
SE	.0	.0										1.4	4.3
SSE	.0	1.4	.0									2.8	5.2
S	1.0	4.1	1.4	.5								7.8	4.8
SSW	.0	2.3	.0	.9								5.1	6.9
SW	.0	.0										1.0	3.5
WSW	.0	.0										1.0	3.5
W	4.0	.0	.0	.5								5.5	3.7
WNW	5.1	1.9	1.0	1.4								9.2	5.0
NW	.5	4.0	1.4	.5								13.4	4.2
NNW	1.0	7.0	4.1	.9	.5							13.4	6.5
VARB													
CALM												23.0	
	24.0	1.3	14.3	5.5	.5							10.0	4.1

TOTAL NUMBER OF OBSERVATIONS 17

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 STATION NAME QUANTICO, VA 60-71, 73-76 YEARS MONTH 04  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	0.1	0.1	.0								0.0	6.0
NNE	1.0		.0									0.3	5.0
NE		.0	.0									.0	5.0
NNE		.0	.0									.0	5.5
E	.0	.0										1.0	3.7
ESE													
SE		.0	.0									.0	5.5
SSE			.0									.5	5.0
S	.3	2.3	2.7									6.0	4.5
SSW	.0	1.0	.0									2.0	5.5
SW	.0	.0	.0									1.0	5.3
WSW		.0	.0									1.0	5.0
W	7.0	7.0	1.0									8.0	4.5
WNW	7.0	4.1	1.4	.0								8.0	.4
NW	1.5	6.0	.0	.0								14.0	4.4
NNW	1.5	1.0	2.3	.0	.0							11.1	5.7
VARB													
CALM												27.0	
	24.4	27.6	17.1	3.2	.5							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 17

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17 33 STATION NAME SANITICO, VA YEARS 61-71, 73-77 MONTH JAN  
CLASS ALL WEATHER HOURS (L.S.T.) 07  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	7.4	1.3	.4								7.2	4.1
NNE	.2	.2	.4									2.1	4.6
NE		.2	.4									1.3	4.6
NNE		.4	.2									1.3	4.7
E	.2	.2										1.7	4.7
ESE	.2	.2										.2	4.7
SE		.2										.2	4.7
SSE	.2											.4	4.7
S	2.1	2.1	.2									6.2	4.3
SSW	.2	2.1	.2									2.4	4.3
SW	.2		.2									1.7	5.7
WSW	.2	2.1	.4									2.4	4.3
W	2.1	.2	.4	.4								4.7	4.4
WNW	.2	.2	.2	.2								2.7	4.5
NW	.2	.2	2.1	.4								14.3	4.3
NNW	2.1	2.1	4.7	.4	.4							11.7	4.6
VARB													
CALM												24.2	
	2.1	11.2	13.5	2.5	.4							10.7	3.7

TOTAL NUMBER OF OBSERVATIONS 277

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 173 STATION NAME ALL WEATHER CLASS MONTH 17 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		3.0	1.0	1.6								7.4	1.7
NNE		1.0	1.2									2.2	1.0
NE		1.0	.4									1.4	1.0
NNE	1.0											1.0	1.0
E	1.0	1.0										2.0	1.0
ESE		1.0										1.0	1.0
SE		2.0										2.0	1.0
SSE	1.0		1.0									2.0	1.0
S	3.0	4.0	0.3									7.3	1.0
SSW	1.0	2.0										3.0	1.0
SW			1.0	.4								1.4	1.0
WSW			1.0	.4								1.4	1.0
W	1.0	1.0	2.1	.4								4.5	1.0
WNW	1.0	1.0	1.2	.4	.4							3.0	1.0
NW	1.0	2.0	2.7	.8								6.5	1.0
NNW	3.0	3.0	3.1	2.3	.4							13.1	1.0
VARBL													
CALM												16.7	
	21.7	37.7	22.1	6.6	.8							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 17

SNOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1073 OFFICE, VA STATION NAME 67-71,73-78 YEARS JAN MONTH 17 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.3	7.1	1.7								7.4	1.2
NNE	1.0	.8	.2	.4								3.0	1.4
NE		.2	.2									1.2	1.3
ENE	1.2	1.0	.2									3.0	4.1
E	1.0	1.2		.4								2.1	4.4
ESE		.2										.4	5.7
SE	1.2	1.0	1.6									4.7	5.1
SSE	1.0	1.1	.4	.4								7.8	4.5
S	.2	1.2	2.7									15.2	4.3
SSW		1.2	1.6	.4								3.1	6.5
SW		1.0	.4		.4							2.7	7.1
WSW		1.0	.8	.4								2.7	7.4
W		1.3	7.1	.4								5.7	7.1
WNW	.2	4.7	5.0	3.5		.4						14.7	5.4
NW	1.2	1.7	1.6	2.3								7.1	5.2
NNW		1.7	2.3	1.0								7.0	1.6
VARBL													
CALM												1.7	
	1.0	37.8	25.7	11.7	.4	.4						10.0	5.0

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME ASHEVILLE, NC YEARS 67-71, 73-75 MONTH 12  
CLASS ALL WEATHER HOURS (L.S.T.) 12  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.0	1.7								.0	.0
NNE	.0	2.0										4.0	4.1
NE	.0	2.0	.0									4.0	4.7
ENE	1.0	1.0										2.0	2.3
E		.0	.0									1.0	5.3
ESE	.0											1.0	2.3
SE	.0	1.0	.0									2.0	4.7
SSE	.0	2.0	1.0									3.0	4.7
S	1.0	4.0	2.0	.0								11.0	4.0
SSW	.0	2.0	1.0									4.0	7.6
SW	.0	.0	2.0									4.0	7.1
WSW	.0	.0	.0									1.0	.5
W	.0	2.0	2.0	.4								4.0	6.3
WNW	.0	2.0	2.3	2.0	.4							7.0	7.6
NW	.0	1.0	2.0	.0								5.0	7.6
NNW	.0	1.0	4.1	1.2								7.0	7.6
VARBL													
CALM												16.0	
	1.0	2.0	27.0	5.6	.4							110.0	5.0

TOTAL NUMBER OF OBSERVATIONS 214

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1077 STATION NAME 1077, VA YEARS 1971-72  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	4.0	1.0	0.0								0.0	0.0
NNE		1.0										1.0	0.0
NE		1.0										1.0	0.0
ENE													0.0
E	0.0	1.0	0.0									0.0	0.0
ESE	1.0	1.0	0.0									2.0	0.0
SE	0.0	1.0										1.0	0.0
SSE		0.0	0.0									0.0	0.0
S	0.0	2.0	1.0									3.0	0.0
SSW	0.0	2.0	1.0									3.0	0.0
SW	0.0		0.0									0.0	0.0
WSW	0.0	1.0	1.0									2.0	0.0
W	0.0	1.0		0.0								2.0	0.0
WNW	1.0	0.0	1.0	0.0								2.0	0.0
NW	0.0	0.0	1.0	0.0								1.0	0.0
NNW	0.0	0.0	0.0									0.0	0.0
VARBL													0.0
CALM													0.0
	10.1	30.0	14.0	2.7								2.0	0.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 STATION NAME 10A, VA YEARS 71, 73-76 NORTH 02  
CLASS ALL WEATHER HOURS (L.S.T.) 12  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	1.0	1.0	.0								.0	.0
NNE	1.0	1.0		.0								1.0	.2
NE		.										.0	1.0
ENE	.	.										.0	1.0
E	.	.	.									1.0	4.0
ESE	.	.	.0									1.0	1.0
SE		1.0										1.0	4.7
SSE	1.0	2.0	1.0									5.1	4.0
S	.	1.0	2.0	.0								6.0	5.7
SSW	1.0	2.0	.0									1.1	1.0
SW	.	.	1.0									.0	1.0
WSW	.	.	.0									1.0	4.7
W	1.0	1.0	.0									1.1	1.7
WNW	4.0	1.0	2.0	.0								1.1	1.7
NW	.0	1.0	1.0	1.0								1.0	5.7
NNW	1.0	4.0	2.0	.0								1.1	1.7
VARBL													
CALM												74.0	
	21.0	11.0	15.0	5.0								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 17

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1771 STATION NAME SATTICO, VA YEARS 60-71, 73-78 MONTH JAN  
CLASS ALL CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	2.0	2.3	1.0								7.0	4.7
NNE	.0	1.0	.0	.1								2.0	5.1
NE	.0	1.1	.0									1.0	5.0
ENE	.0	.0	.0									1.0	4.1
E	.0	1.0	.0	.1								1.0	4.6
ESE	.0	.0	.1									1.0	3.0
SE	.0	1.0	.0									2.0	4.7
SSE	1.1	1.0	.0	.1								3.0	4.7
S	.0	3.0	2.4	.0								6.0	4.0
SSW	.0	2.0	.0	.0								4.0	5.4
SW	.0	.0	1.1	.1	.1							.0	.7
WSW	.0	1.0	.0	.1								2.0	5.0
W	.0	2.0	1.0	.4								.0	.0
WNW	2.0	3.0	2.3	1.4	.1	.1						6.0	5.7
NW	.0	3.0	1.0	1.0								10.0	5.4
NNW	2.0	3.0	3.0	1.1	.0							11.0	.0
VARBL													
CALM												1.0	
	11.2	31.0	10.0	5.6	.4	.1						10.0	4.4

TOTAL NUMBER OF OBSERVATIONS 1779

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

DATE: 11-73 STATION: 0-1100, VA STATION NAME: 0-71, 73-76 YEARS: MONTH: 11  
CLASS: ALL WEATHER HOURS (L.S.T.):  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	1.	1.								6.	7.
NNE		.	2.									3.	7.
NE	1.	.	.									3.	4.
ENE	.	1.										1.	4.
E		.	.									1.	5.
ESE	1.											1.	2.
SE	.	1.										1.	4.
SSE		.		.								1.	5.
S	.	1.	1.									5.	4.
SSW	.	2.	2.	.								6.	3.
SW	.	1.	.									3.	4.
WSW		.										1.	6.
W	4.	2.	1.	.5	.5							5.	5.
WNW	1.	1.	1.	.5	.5							10.	4.
NW	.	1.	4.	1.	.5							11.	5.
NNW	1.	4.	3.	1.								18.	4.
VARBL													
CALM												27.	
	2.	23.	15.	5.	1.							100.	4.

TOTAL NUMBER OF OBSERVATIONS 177

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION QUINCY, VA STATION NAME 67-71, 73-76 YEARS 1967-1976 MONTH 04  
CLASS ALL WEATHER HOURS (L.S.T.) 04  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0
NE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0
ENE	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.7
E	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.7
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.3
S	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	5.1
SW	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	7.0
WSW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0
W	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	5.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	6.1
NNW	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
VARBL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CALM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	0.0
	2.0	2.0	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 17

8808

## SURFACE WINDS

### CONVENTION

**NOUNS (L.S.T.)**

255**SMOS**

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17173 STATION NAME CHARLOTTE, VA YEARS 67-71, 73-78 MONTH FEB  
CLASS ALL WEATHER HOURS (L.S.T.) 10  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	3.4	1.7	1.7		.4						9.0	4.4
NNE		2.0	1.7									3.7	5.8
NE	.0	1.7	2.1									4.7	6.1
NNE	.0	2.0										3.4	4.5
E	3.4	1.7	.4									5.6	7.3
ESE	.0	.0										1.7	3.3
SE	.0	2.0										3.4	3.9
SSE	1.7	3.0	1.3	.4								6.7	5.6
S	3.0	3.0	2.0	.4								11.2	5.7
SSW	.0	1.3	.4									3.0	4.7
SW	.0	1.3	2.1									3.0	7.2
WSW		.0	.4									1.7	4.5
W	.0	2.0	.4	1.3								5.0	7.3
WNW	1.7	.4	3.4	1.7	.4	.4						8.0	10.0
NW	1.7	1.3	5.0	3.4	.4							11.6	9.3
NNW	.0	2.1	3.4	3.0								9.0	4.0
VARBL													
CALM												7.7	
	11.7	32.6	29.2	12.0	.9	.3						10.5	6.5

TOTAL NUMBER OF OBSERVATIONS 213

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1173 QUANTICO, VA STATION NAME 68-71,73-76 YEARS  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.4	2.4	1.3	.4							2.5	2.1
NNE	.4	2.4	.4									4.7	4.9
NE	.4	2.4	1.7									4.3	5.7
ENE	.4	1.7	1.7									3.4	6.1
E	.4	2.4										3.4	4.8
ESE	.4	1.7										2.1	3.4
SE	1.7	1.7	.4									3.4	5.0
SSE	.4	2.4	2.1	.4								5.5	6.2
S	.4	1.7	2.1	1.3								17.5	5.4
SSW	.4	1.7	1.7	.9								4.7	7.7
SW		.4		.4								1.7	8.3
WSW	.4		1.7	.9								3.4	5.4
W	.4	2.1	3.4	.4	.4							6.4	8.3
WNW		2.4	2.1	3.4	1.3							9.5	10.3
NW	.4	2.4	2.4	3.4	1.7							10.2	10.2
NNW	.4	2.4	4.3	.4								8.1	7.1
VARBL													
CALM												4.7	
	11.1	32.7	29.4	12.3	3.9							100.0	6.4

TOTAL NUMBER OF OBSERVATIONS 275

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 QUANTICO, VA 60-71,73-79  
STATION NAME CLASS YEAR MONTH 15  
HOURS (L.S.T.)  
ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	4.1									6.7	6.4
NNE	.0	2.3	1.4									4.1	5.4
NE	.0	1.4	2.3									4.6	5.9
NNE		.0	1.4									2.5	5.1
E		.0	.0									.0	4.5
ESE		1.0	.0									2.5	5.7
SE	.0	.0	.0									1.4	5.7
SSE	2.3	2.7	.0									6.7	4.3
S	2.3	6.5	4.1									13.4	5.2
SSW		.0	4.1	1.4								7.8	4.5
SW		.0	1.4	.0								3.2	4.1
WSW		.0	.0									1.0	7.8
W	1.0	1.0	2.3	.0	.5							6.7	7.8
WNW		.0	2.7	2.5								4.2	8.8
NW	.0	2.3	5.1	3.7	.0							12.4	4.3
NNW		.0	.0	2.0								9.7	9.7
VARIABLE													
CALM												5.7	
	1.0	1.7	45.6	12.0	1.4							10.0	7.1

TOTAL NUMBER OF OBSERVATIONS 117

2808

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 STATION NAME STATION NAME 69-71.73-78 YEARS

ALL WEATHER CLASS

10 HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	1.0	1.5								6.4	7.2
NNE		0		0.5								2.0	7.4
NE	0	1.0										2.0	4.3
ENE		1.0	1.0									2.0	6.0
E		0										0.5	4.0
ESE	0		0.5									1.0	5.0
SE	0	1.0	1.0									3.0	5.6
SSE	0	1.0	0.5									4.0	3.0
S	0	4.5	7.0									11.4	4.0
SSW	0	2.0	1.0	0.5								5.0	5.2
SW	0	2.0	0.5	1.0								4.5	6.2
WSW	1.0											1.0	2.0
W	0	0	0.5	1.5								3.0	4.1
WNW	0.5	3.0	0.5	1.5								7.0	5.9
NW	0	1.0	2.0	2.0								6.0	9.3
NNW	2.0	6.0	2.0	1.5								14.0	6.2
VARB.													
CALM												72.3	
	10.7	31.2	15.0	10.4								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 202

8806

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1773 WINTIC, VA STATION NAME W-71, 73-76 YEARS 1971-76

CLASS ALL WEATHER

MONTH 27

NUMBER (L.S.T.) 27

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	4.1	.5	1.0								7.1	5.7
NNE	1.0		.5	.5								3.0	1.6
NE		3.0	1.0									4.0	3.6
ENE	.5	.5	.5									1.5	1.3
E		1.0										1.0	4.0
ESE	.5	1.0										1.5	4.3
SE		1.0										1.0	5.9
SSE	.5	1.0	1.5	.5								3.5	7.4
S	1.0	4.1	2.0									7.1	5.3
SSW		3.0	2.0									5.0	6.2
SW			.5									.5	1.0
WSW		1.0	.5									1.5	5.3
W	2.0	4.1	1.0	.5	.5							4.1	6.1
WNW	2.0	3.0	1.0	1.0								7.0	5.8
NW	2.0	4.1	3.0	1.0								10.2	5.4
NNW	1.0	3.0	4.0	2.0								11.2	7.5
VARB.													
CALM												10.4	
	17.6	30.7	19.3	6.6	.5							100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 177

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME ASHEVILLE, VA 61-71.73-7A YEARS 1977 MONTH FEB  
CLASS ALL WEATHER HOURS (L.S.T.) 24  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	2.1	1.1	.1	.1						7.4	7.5
NNE	.7	1.6	1.1	.2								3.2	5.2
NE	.7	1.7	1.1	.1								3.7	5.7
ENE	.5	1.4	.7									2.6	5.4
E	.7	1.2	.7									3.1	4.1
ESE	.7	.7	.7									1.7	4.4
SE	.7	1.7	.7									1.7	4.9
SSE	1.2	1.7	.7	.2								3.2	5.2
S	.7	4.5	2.3	.7								10.0	5.2
SSW	.7	2.2	1.7	.5								5.5	6.7
SW	.7	1.7	.7	.4								2.4	7.7
WSW	.7	.7	.7	.1								2.7	5.7
W	1.7	2.7	1.3	.5	.2							6.6	5.5
WNW	2.7	2.2	2.4	1.7	.3	.1						4.7	7.2
NW	7.7	2.7	3.7	2.3	.6							12.2	7.5
NNW	1.7	3.7	4.7	1.6								10.7	7.3
VARBL													
CALM												15.4	
	1.7	31.2	23.5	9.2	1.2	.1						100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 167

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 173 STATION NAME 173, VA YEAR 71, 72-76 MONTH 1  
CLASS LL FAIRER HOURS (L.S.T.) 1  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	1.7	2.7	.5								1.0	1.0
NNE	.7	1.0		.5								4.0	4.1
NE	.7	.7	1.7									7.0	4.1
ENE	.7	.7	1.0									7.0	.3
E	.7											.0	.0
ESE	.7	.7										1.0	7.3
SE	1.4	1.0	.7									4.0	4.7
SSE	1.0	1.4	.7									3.0	4.1
S	1.0	4.0	3.0									7.0	6.7
SSW		1.0	1.0	.5								7.3	.0
SW	.7											.0	1.0
WSW	.7	.7	1.4	.5								1.0	7.0
W	1.0	1.0	.7									4.0	4.7
WNW	4.0	2.7	.7	.7								6.0	4.4
NW	.7	4.0	1.0	1.4								11.0	5.4
NNW	.3	2.0	7.7	1.9								11.0	.7
VARB													
CALM												1.0	
	24.0	20.4	19.1	5.0								10.0	.0

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, VA YEARS: 1973-76

CLASS: ALL WEATHER

CONDITION:

STATION: 14581432 NORTH: 35  
EAST: 82

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	0.1	1.0	.5								0.0	0.7
NNE	.0		1.0									2.0	0.6
NE		1.0	0.5									1.5	0.6
ENE		1.0	.5									1.5	0.4
E	1.0	1.0										2.0	0.7
ESE	1.0	1.0										2.0	0.7
SE	.0	.0										.0	0.0
SSE	.0	1.0										1.0	0.6
S	1.0	1.0	2.0	.5								6.0	0.7
SSW		.0	1.0									2.0	.5
SW	1.0	.0	2.0	.5								4.0	0.7
WSW	.0	.0										.0	0.0
W	1.0	.0	.0									1.0	0.6
WNW	0.4	.0	1.0	.5								0.1	0.6
NW	.0	2.0	3.0	.5								11.0	0.4
NNW	.0	2.0	0.1	1.0								1.0	0.7
VARBL													
CALM												0.1	
	21.0	30.0	11.2	4.1								100.0	0.4

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, VA STATION NAME ALL WEATHER YEARS 1971-73-74 MONTH ---  
 CLASS ---  
 CONDITION ---  
 HOURS (LST) ---

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	0.7	1.0									4.0	0.0
NNE	1.0	1.0	2.7									0.0	0.0
NE	.0	0.0	1.0	1.4								6.0	0.0
ENE		.0	.0	.0								0.7	0.0
E		.0	.0									1.0	0.0
ESE	.0	.0	.0	.0								2.7	0.0
SE	1.0											1.0	0.0
SSE	.0	.0										0.7	0.0
S	.0	.0	0.3	1.4								10.0	0.0
SSW		.0	.0									0.0	0.0
SW	.0	.0	.0									0.0	0.0
WSW	1.0	.0										1.0	0.0
W	.0	.0	.0									0.0	0.0
WNW	.0	0.7	0.0	.0								0.0	0.0
NW	.0	0.0	0.7	.0								0.0	0.0
NNW	0.7	0.0	0.0	.0								1.0	0.0
VARBL													
CALM												14.0	
	21.0	3.4	10.0	0.4								10.0	

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 72 STATION NAME CLASS CONDITION YEARS NORTH HOURS (L.S.T.)

LL EATHE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	2.7	1.0	1.7								8.0	7.1
NNE	.	2.7	.	.4								1.0	1.4
NE		.7	5.7									.0	3.2
ENE	.	7.1	5.7									7.7	4.4
E	1.0	.	.4									7.1	4.4
ESE		1.0	.									3.3	1.0
SE	.	1.7										3.0	3.6
SSE	.7	4.0	1.3									7.7	1.2
S	1.7	.	4.0	.4								17.3	1.7
SSW		.	1.2	.4								2.7	9.3
SW			.									.4	.
WSW		.7	1.2									7.3	1.7
W		1.0	5.7									.	7.1
WNW	.	.	7.0	4.6	.4							1.0	17.4
NW	.	7.7	4.0	7.1	.4							17.0	6.7
NNW	1.0	1.3	5.0	7.7								13.3	1.7
VARBL													
CALM												1.0	
	17.1	71.0	34.7	14.2	.							1.0	2.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, NC YEARS: 1971-73-76

CLASS: ALL WEATHER

CONDITION:

MONTH: 1

HOURS (L.S.T.):

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	3.1	.4	.4							5.0	7.9
NNE	.0	1.0	1.0									4.0	6.0
NE	1.0	2.0	1.0									6.0	.1
ENE	1.0	2.0										7.4	6.4
E	.0	2.0	.0									7.0	6.8
ESE	1.0	.0	.0									2.0	6.3
SE	.0	3.0	2.0	.4								6.6	6.0
SSE	2.0	1.0	3.0									6.0	.6
S	.0	1.0	2.0	1.0								11.0	6.3
SSW			.0	.0	.4							1.0	12.0
SW		1.0	.0	.4								2.3	7.7
WSW			2.0									2.0	7.7
W	.0	2.0	2.0	1.0								7.7	7.0
WNW		.0	3.0	2.0	.0							7.7	10.2
NW		1.0	6.0	2.0	.4							6.6	6.7
NNW		1.0	7.0	3.0								8.0	6.0
VARBL													
CALM												4.0	
	13.0	2.0	17.0	13.0	1.0							10.0	7.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1173 STATION NAME ALL WEATHER YEARS 66-71, 73-78 MONTH 17 HOURS (L.S.T.) 17

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	.	1.7	.4								2.5	5.1
NNE	.	1.2	.	.4								2.5	5.1
NE	.	1.7	2.1									3.8	5.3
ENE	.	.	1.7									1.6	5.4
E	.	1.7	.4									2.1	5.4
ESE	.	2.1	1.2									3.3	4.1
SE	.	.4	2.1									2.5	5.7
SSE	.	.	1.7									2.5	5.3
S	.7	4.6	4.7	.4								12.7	5.7
SSW	.	1.2	1.2	.4								2.3	7.4
SW		.	1.7									2.1	7.8
WSW		.	1.7	.4								2.5	.3
W	1.7	.4	2.7	.6								5.7	7.1
WNW		.1	4.7	2.7	.4							5.6	.7
NW	.	1.7	2.7	2.5								7.6	5.6
NNW		.	.4	4.6								12.6	.6
VARBL													
CALM													
	1.2	70.4	35.7	13.6	.4							100.7	6.1

TOTAL NUMBER OF OBSERVATIONS 17

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1073 STATION NAME 1073, VA YEARS 6-71, 73-75

CLASS ALL WEATHER

CONDITION

44' NORTH  
10 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	2.0	4.1	.0								6.1	4.5
NNE		1.0										2.3	4.3
NE	1.0	.0	.0									2.7	4.7
ENE	.0	1.0	.0									2.3	4.4
E	.0	1.0										1.0	4.0
ESE	1.0	1.0	1.0	.5								5.5	5.6
SE	1.0	2.0	1.0									5.0	4.7
SSE	.0	1.0	.0									3.2	5.0
S	.4	4.5	1.0									12.7	4.3
SSW	.0	1.0										1.0	5.4
SW	.0	1.0	.0									2.3	5.0
WSW	.0	.0										1.4	2.7
W	1.0	.0	2.0	.0								5.0	7.3
WNW		1.0	.0									2.0	6.3
NW	1.0	1.0	5.5	.0								2.1	6.5
NNW	1.0	4.1	4.0	2.3	.0							12.7	5.0
VARBL													
CALM												1.0	
	1.0	32.0	25.0	4.5	.5							10.0	4.7

TOTAL NUMBER OF OBSERVATIONS 2

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1773 STATION NAME CHARLOTTE, VA YEARS 65-71, 73-76 MONTH NORTH 22 HOURS (L.S.T.)

CLASS ALL WEATHER

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.3	2.0	1.4								7.8	7.0
NNE		2.3	0.0									2.3	4.0
NE	1.0	2.3										4.0	3.0
ENE		0.0	0.0									1.0	7.0
E		0.0										1.0	4.0
ESE	0.0	1.4										3.0	7.3
SE	1.0	1.0		0.0								4.0	4.0
SSE	1.0	3.2	0.0									5.5	4.7
S	1.0	5.1	1.4	0.0								8.0	5.7
SSW	1.0		0.0									1.0	4.5
SW		0.0		0.0								1.4	0.0
WSW	0.0	0.0	0.0									2.0	5.0
W	0.0	0.0	1.4	0.0								5.0	5.1
WNW	0.0	0.0	1.0	0.0								0.0	4.0
NW	0.0	4.0	6.0									10.0	5.0
NNW	0.0	0.0	2.3	0.0								7.0	6.0
VARBL													
CALM												16.0	
	21.0	35.0	10.0	5.1								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 217

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1073 STATION NAME OARFICO, VA YEARS 60-71, 73-78 MONTH ALL  
ALL WEATHER CLASS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	2.0	2.3	.6	.1							5.3	5.7
NNE	.1	1.7	1.7	.2								3.0	5.8
NE	.1	2.2	1.5	.2								4.0	5.9
ENE	.1	1.5	1.7	.1								3.7	5.5
E	.7	1.2	.7									2.2	4.5
ESE	1.7	1.4	.6	.1								2.4	4.6
SE	1.5	1.9	.5	.1								4.5	4.8
SSE	1.2	2.0	1.4									5.2	5.1
S	2.0	4.6	2.6	.6								10.4	5.9
SSW	.1	1.1	.5	.3	.1							2.4	7.4
SW	.1	.6	.9	.2								1.3	4.6
WSW	.1	.6	1.7	.1								2.2	4.7
W	1.0	1.1	2.1	.5								5.1	6.1
WNW	2.2	1.0	2.3	1.7	.2							8.3	7.2
NW	2.0	3.0	4.1	1.5	.1							11.2	7.0
NNW	1.2	3.0	4.0	2.4	.1							11.5	7.6
VARBL													
CALM												13.7	
	10.9	31.7	27.0	8.6	.5							100.0	5.1

TOTAL NUMBER OF OBSERVATIONS 149

8805

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10073 STATION NAME CUMMINGS, VA YEARS 67-71, 73-76  
CLASS ALL WEATHER  
CONDITION  
DIRECTION NORTH  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	2.0									1.3	3.0
NNE	1.0	1.0										1.0	3.0
NE	.5	1.0	1.0	.5								3.0	6.0
ENE		.5										1.0	4.5
E			.5									1.0	7.0
ESE	.5											.5	2.0
SE		1.0	.5									1.0	5.0
SSE		2.0	1.0									3.0	6.0
S	1.0	3.0	1.0	1.0								9.0	6.0
SSW	1.0	2.0	1.0	.5								5.0	6.0
SW	.5	.5	1.0	.5								2.0	5.0
WSW	.5		.5	.5								1.0	5.0
W	1.0	1.0	.5									2.0	4.0
WNW	.5	6.0	1.0									12.0	4.0
NW	1.0	6.0	2.0	1.0								12.0	5.0
NNW	2.0	2.0	4.0	1.0								11.0	6.0
VARBL													
CALM												17.0	
	20.0	35.0	20.0	6.0								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 200

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1077 LOCATION WATKINS, VA STATION NAME SS-71, 73-76 YEARS 1971  
CLASS ALL WEATHER MONTH 04  
CONDITION 04  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	1.0	1.4								5.7	4.6
NNE	.5	1.0	1.4									3.3	6.6
NE	.5	.5	.5									1.5	4.7
ENE	.5	2.0		.5								2.5	5.7
E		1.0										1.0	7.5
ESE		.5										.5	6.0
SE	.5	.5										1.0	7.0
SSE	.5	.5	.5									1.5	4.7
S	2.0	1.4	1.0	.5								6.7	5.5
SSW	1.0	.5	2.0									4.5	5.3
SW	.5	.5	1.0									1.5	5.5
WSW		.5		.5								1.0	10.0
W	3.0	1.0	.5									4.5	3.5
WNW	2.0	5.0	1.0									17.0	3.9
NW	4.0	6.0	2.0	.5	.5							14.0	5.5
NNW	1.0	4.0	1.0	1.4								8.0	6.5
VARBL													
CALM												0.1	
	1.0	31.1	11.3	4.6	.5							10.7	4.2

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1773 LITTLE, VA STATION NAME 5-71,73-78 YEARS MONTH 17 HOURS (L.S.T.) 17

CLASS ALL WEATHER

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	2.0									4.0	6.8
NNE	.0	.0	.0	.5								1.0	1.0
NE		1.0	1.0									2.0	2.0
NNE			1.0									1.0	1.3
E	.0	.0										.0	2.0
ESE	.0	1.0	.0									2.0	5.0
SE	.0	.0										1.0	2.7
SSE	1.0	.0										1.0	3.0
S	1.0	4.0	1.0	.0								6.0	6.2
SSW		1.0	1.0									3.0	6.0
SW	.0		.0	.0								1.0	1.0
WSW	.0	.0	.0									2.0	5.0
W	7.0	1.0	.0									8.0	1.4
WNW	2.0	6.0	1.0									9.0	4.5
NW	2.0	12.0	1.0	2.0								17.0	4.8
NNW	.0	4.0	3.0	.0	.0							7.0	2.3
VARBL													
CALM												1.0	
	23.0	3.0	18.0	5.1	.0							50.0	4.0

TOTAL NUMBER OF OBSERVATIONS 17

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 173 STATION NAME STATION NAME YEARS 1973-74 1973-74  
ALL WEATHER  
CLASS  
CONDITION  
17  
17  
17

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			2.4	2.4	.4							5.7	13.7
NNE	.4	2.4	1.6	.4	.4							4.0	7.7
NE	.4	2.4	1.6	.4								5.3	6.1
ENE	.4	3.6	.4									4.0	5.2
E	.4	1.2	1.2									3.3	6.0
ESE	.4	.4	.4									1.0	4.0
SE	2.4	4.0	1.2									6.0	4.4
SSE	1.6	6.0	.4									6.9	4.3
S	3.6	5.7	2.8	.4								17.4	5.6
SSW		1.2	1.6	1.2								4.0	5.9
SW		.4	.4									1.0	5.0
WSW		.4	1.6	.4								2.4	5.6
W	.4	2.4	1.6	.8								5.7	7.1
WNW		2.4	2.4	1.2								6.0	7.6
NW		.4	5.6	2.4	.4	.4						10.0	10.6
NNW	.4	.4	6.0	2.4								10.0	7.0
VARBL													
CALM												2.0	
	17.2	37.2	37.2	12.6	1.2	.4						10.0	7.0

TOTAL NUMBER OF OBSERVATIONS 200

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, VA YEAR: 1973-74 MONTH: APR  
CLASS: ALL WEATHER HOURS (L.S.T.): 1  
CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	1.	.2	.4							4.	1.9
NNE		.2	2.		.4							3.	4.1
NE	.	1.2	2.									3.	6.7
ENE	.	.4	1.4	.4								3.	4.4
E	.	1.2	.									2.	6.1
ESE	.2	1.2										2.	4.1
SE	.	.2	1.2									7.2	6.3
SSE	.	2.6	1.2	.4								2.2	6.7
S	1.	2.	2.	2.4								15.7	6.6
SSW			.2	.2								4.	1.3
SW		1.	1.4		.4							3.	6.3
WSW		.2	1.4	.4	.4							3.2	1.4
W		.2	2.4	.8	.4							7.2	6.9
WNW		.2	2.4	1.2								6.4	7.6
NW		1.2	4.4	2.6	.4							11.7	11.2
NNW	.	.	2.4	4.2		.4						10.7	10.7
VARBL													
CALM												2.	
	7.4	76.1	30.7	15.3	2.4	.4						170.1	7.6

TOTAL NUMBER OF OBSERVATIONS: 244

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1773 STATION NAME CHARLOTTE, VA YEARS 1971-74 MONTH APR  
CLASS ALL WEATHER HOURS (LST) 14  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N			.4	.6	.4							5.1	11.1
NNE	.1		.1									1.2	7.7
NE	.1	.1	1.7	.4								3.3	6.4
ENE	1.7	2.6	1.7									6.1	6.1
E	.1	1.7	.4									2.2	4.6
ESE	.1	1.7	2.6	.4								6.1	6.1
SE	.1	2.6	1.7									4.4	7.1
SSE	.1	2.6	2.6									7.3	4.6
S	.4	5.7	2.6	1.7								11.1	5.7
SSW	.1	.1	2.6	.6								3.4	6.8
SW		.1	1.7	.4								2.2	6.1
WSW		.1	.1	.7	.4							2.2	6.1
W	.1	1.7	2.6	3.1								7.5	6.1
WNW	.1	1.7	2.6	2.2								7.6	6.1
NW	.1	2.2	.1	3.1	.6							10.1	6.4
NNW	.1	1.7	2.6	.7	.7							7.6	6.3
VARBL													
CALM												1.1	
	1.7	27.1	22.2	10.4	2.6							10.1	7.7

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MO

MONTH

ALL WEATHER

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	1.0	.5	.5							1.0	.7
NNE	1.0	1.0										2.0	.7
NE		1.0	.5									1.5	.7
ENE		.5	.5									1.0	.7
E	1.0	1.0	.5									2.5	.7
ESE		1.0	1.0									2.0	.7
SE	.5	2.0	1.0									3.5	.8
SSE	1.0	1.0	.5	.5								3.0	.8
S	1.0	1.0	1.0	.5								4.0	.8
SSW	.5	1.0	1.0									2.5	.8
SW	1.0	1.0	.5									2.5	.8
WSW	1.0		1.0									2.0	.8
W	1.0	1.0	.5									3.0	.8
WNW	1.0	.5	2.0	.5								4.0	.8
NW	.5	1.0	1.0	2.0	.5							5.0	.8
NNW		1.0	1.0	1.0	.5							3.5	.8
VARBL													
CALM												1.0	
	1.0	3.0	2.0	1.0	1.0							1.0	.8

TOTAL NUMBER OF OBSERVATIONS

1

SMOS

4

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, VA YEARS: 1973-74 MONTH: 12

CLASS: ALL WEATHER

CONDITION:

HOURS (LST): 12

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	1.	.	.							1.	.
NNE		.	1.									1.	.
NE	.	.	.									1.	.
ENE	1.	.	1.									1.	.
E		.										1.	.
ESE		1.	.									1.	.
SE	1.	.	1.									1.	.
SSE	.	1.	1.									1.	.
S	1.	1.	1.	1.								1.	.
SSW	.	1.	1.									1.	.
SW		1.		.								1.	.
WSW	.	1.	.									1.	.
W	.	1.	.									1.	.
WNW	.	1.	.									1.	.
NW	.	1.	.	1.	.							1.	.
NNW	1.	1.	.	.	.							1.	.
VARBL													
CALM													
	1.	1.	1.	1.	1.							1.	1.

TOTAL NUMBER OF OBSERVATIONS 12

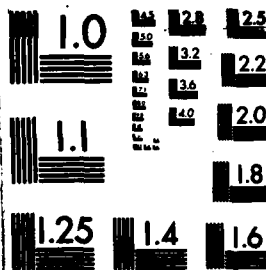
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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73  
STATION

QUANTICO, VA

STATION NAME

69-71, 73-78

YEARS

APR

MONTH

ALL WEATHER

CLASS

ALL

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.2	2.3	.8	.2							5.1	5.1
NNE	.1	1.1	1.0	.1	.1							2.2	6.7
NE	.1	1.4	1.2	.2								2.2	6.2
NNE	.1	1.4	1.0	.2								3.2	5.4
E	.1	1.0	.6									1.0	5.0
ESE	.1	1.0	1.0	.1								2.5	6.1
SE	1.1	2.5	.8									4.3	5.1
SSE	1.4	3.2	.9	.1								5.5	4.9
S	2.1	5.7	3.1	1.2								12.5	6.1
SSW	.7	1.4	2.1	.5								4.4	6.9
SW	.3	.1	.2	.2	.1							2.3	7.1
WSW	.1	.1	.2	.3	.1							2.4	7.4
W	1.7	1.0	1.5	.6	.1							5.6	6.1
WNW	2.2	3.0	2.3	.7								9.9	5.6
NW	2.2	4.6	3.2	2.3	.4	.1						14.2	7.2
NNW	1.0	2.3	3.6	2.0	.2	.1						2.7	6.4
VARBL													
CALM												10.1	
	17.8	34.2	26.9	9.2	1.2	.1						10.2	5.9

TOTAL NUMBER OF OBSERVATIONS

1777

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

QUANTICO, VA  
STATION NAME

69-71,73-76  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

01  
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.5	2.5										4.0	3.5
NNE	.5	.5	.5									1.5	6.0
NE		2.0	.5									2.5	5.2
NNE		1.0	1.0	.5								2.5	7.4
E	.5	1.0										1.5	4.0
ESE	1.0	1.0										2.0	3.6
SE	1.0	1.0	1.0									3.0	5.3
SSE		2.0	1.0	.5								5.0	6.8
S	1.0	4.5	4.0	2.0								12.0	7.2
SSW	1.0	2.0	3.0									6.5	5.9
SW	.5	1.0	.5									2.5	5.0
WSW	1.0											1.0	2.0
W	2.0	2.0	1.0									5.0	4.1
WNW	4.5	6.5	.5									11.5	4.1
NW	2.0	7.0	2.0									14.5	4.5
NNW	2.0	3.0	1.0	.5								7.0	5.4
VABL													
CALM												16.0	
	22.0	30.0	17.5	3.5								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

20

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1773  
STATION

QUANTICO, VA  
STATION NAME

69-71, 73-76  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

04  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.5	.5	1.4									2.9	4.5
NNE			.5									.5	10.0
NE		.5	.5	1.4								2.3	9.9
ENE			.5									.9	8.0
E	.5	1.4										2.3	3.6
ESE	.5	.9										1.9	3.5
SE	.5	.9	.5									2.3	5.4
SSE		.5	1.4									1.9	7.0
S	1.4	4.7	3.3									9.3	5.6
SSW		3.7	2.3									6.0	6.2
SW		.9										.9	5.0
WSW	.5	.5										1.4	4.0
W	.5	1.9	.9									7.3	3.2
WWW	.5	6.5	.5									13.0	3.5
NW	2.4	8.4	2.9									19.5	4.2
NNW	.9	2.8	2.3									6.7	6.0
VARBL													
CALM												20.9	
	20.6	34.9	17.2	1.4								100.0	3.6

TOTAL NUMBER OF OBSERVATIONS

215

8805

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1773  
STATION

GLANTICO, VA  
STATION NAME

60-71,73-78  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

07  
HOURS (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	2.0	2.0									5.6	5.4
NNE	.4	1.6	1.2									3.2	6.0
NE	1.2	1.2	1.2									3.6	5.0
NNE	1.2	2.4	.4									4.0	4.6
E	1.2	2.4	.4									4.0	4.4
ESE	.4											.8	2.5
SE	.4	1.6	.4									2.4	4.8
SSE	.4	.4	1.6	.4								3.2	6.4
S	2.4	4.0	4.4	.4								11.2	5.9
SSW	.4	1.6	3.6									8.0	5.8
SW	.4		.4									.8	4.5
WSW	.4	.4	.4									2.0	4.4
W	1.6	2.0	1.2									4.8	4.8
WNW	2.4	6.4	1.2	.8								10.8	5.0
NW	4.0	4.4	1.2	.6								10.4	4.8
NNW	.4	5.2	2.0									9.2	5.0
VARIABLE													
CALM												16.0	
	24.0	36.0	21.6	2.4								100.0	4.3

TOTAL NUMBER OF OBSERVATIONS

210

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17773  
STATION

QUANTICO, VA  
STATION NAME

69-71, 73-78  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		1.7	2.1	1.2								7.7	7.0
NNE	.4	1.7	1.2	.4								4.2	7.2
NE	1.2	3.1	2.3									6.6	5.8
NNE	1.2	2.7										3.0	4.1
E	1.5	.8	1.5									3.0	5.5
ESE	.4	1.7										2.3	4.3
SE	1.5	4.6	1.9									8.1	5.4
ESE	3.7	5.4	3.1									12.0	5.4
S	4.2	2.3	7.7	.4								21.2	5.5
SSW	.4	1.5	2.3	.8								5.0	7.5
SW		.4	1.2									1.5	6.8
WSW			.4			.4						.4	17.5
W	.4	1.5										1.9	4.6
WNW	.4	.8	1.0	.8								3.0	5.3
NW		1.2	4.2	.8	.4							6.6	9.6
NNW	1.2	3.1	1.7	.8								6.4	6.2
VARIABLE												3.5	
CALM													
	14.2	41.3	33.2	5.0	.4	.4						100.0	6.1

TOTAL NUMBER OF OBSERVATIONS

259

8806

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

QUANTICO, VA

STATION NAME

69-71,73-78

YEARS

MAY

MONTH

ALL WEATHER

CLASS

13

HOURS (L.S.T.)

OBSERVATION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	1.2	2.7	.4								5.1	7.0
NNE	.4	.0	1.2	.8								3.1	7.6
NE	.0	1.9	1.6									4.3	5.9
NNE		3.0	1.2									4.7	5.8
E	1.2	2.7	.4									4.3	4.6
ESE	.0	2.7	1.2									4.7	5.3
SE	1.2	4.0	3.1	.4								9.3	5.6
SSE	3.1	6.2	6.2	1.2								18.7	6.0
S	3.5	7.4	5.4									16.3	5.6
SSW	.4		2.3									2.7	8.4
SW		1.2	.4	.4								1.9	7.6
WSW	.4	.4	1.6									2.3	6.5
W	1.2	2.3	.4									3.9	4.6
WNW		1.5	1.9		.4							4.3	8.0
NW		2.7	3.5	.8								7.0	7.9
NNW	.4	.8	3.1	1.2								5.4	8.8
VARB													
CALM												1.9	
	14.7	42.4	36.2	5.1	.4							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS

257

SNOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

QUANTICO, VA  
STATION NAME

69-71, 73-78  
YEARS

MAY

MORNING

ALL WEATHER  
CLASS

14

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	1.3	1.4									3.4	5.5
NNE	.0	.5	2.3									3.2	7.1
NE	.0	4.1	.5									5.0	5.2
ENE	.0	2.3	1.4									4.5	5.4
E	.0	1.3	1.4	.5								4.5	6.2
ESE	1.4	.5	2.7									5.0	5.7
SE	2.3	3.6	.5	.9								7.2	5.3
SSE	1.4	6.0	4.1	.5								13.1	5.9
S	2.7	5.0	6.0									15.4	6.2
SSW	.0	2.3	2.7	.9								6.3	7.3
SW		1.4	.5									2.3	7.4
WSW		.5										.5	5.0
W	2.7	.5	3.4									6.0	5.1
WNW	.0	2.3	2.3	.9								6.3	7.0
NW	.5	5.0	.9	1.8								6.1	7.1
NNW	.5	.5	2.3	.5								4.1	7.3
VARBL													
CALM												3.0	
	16.7	40.3	33.0	5.0								100.0	6.0

TOTAL NUMBER OF OBSERVATIONS

221

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1073 QUANTICO, VA STATION NAME 59-71,73-78 YEARS 1973  
CLASS ALL WEATHER  
MONTH 10  
HOURS (L.S.T.) 10

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.7	2.0	1.0	.5								6.3	5.7
NNE	.7	1.0										1.5	4.7
NE	1.7	1.0	1.0	.5								3.5	6.1
NNE		.5	.5									1.0	7.0
E	1.0	2.0										3.5	7.8
ESE		4.0	1.0	.5								7.3	6.2
SE	1.0	5.3	3.4									9.7	5.6
SSE	1.5	3.9	1.0									6.3	4.5
S	1.7	5.3	3.0	.5								15.0	5.0
SSW	1.7	1.0	1.0									4.4	4.4
SW	1.0											1.0	2.5
WSW	2.9	.5										2.0	2.2
W	2.4	2.4										4.8	3.5
WNW	1.9	1.0	.5									4.4	3.9
NW	1.0	1.0	.5	1.0								5.0	5.3
NNW	1.7	2.4	1.5									5.2	5.2
VARB.													
CALM												17.0	
	24.0	38.8	16.5	2.9								100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 276

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

QUANTICO, VA  
STATION NAME

62-71, 73-76  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	2.5	1.0									5.0	5.0
NNE	.5		.5									1.0	5.0
NE		.5		.5								1.0	7.5
NNE		1.0	.5	.5								2.0	7.5
E	1.0	1.0	.5									4.0	4.3
ESE	.5	1.0										3.0	4.7
SE	.5	4.0	1.0									6.0	5.8
SSE	1.0	4.0	2.0	.5								7.0	6.2
S	.5	6.0	7.0	1.5								11.0	7.2
SSW	1.0	3.0	.5	.5								5.0	4.7
SW	.5	1.0	.5									2.0	5.4
WSW	.5	.5	.5									1.0	4.7
W	1.0	2.5										4.0	7.4
WNW	.5	5.0	1.5									12.0	3.7
NW	.5	3.0	.5									5.0	3.6
NNW	1.0	3.0	1.0									5.0	5.3
VARB.													
CALM												17.0	
	21.0	41.5	14.5	3.5								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS

200

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

CHANTICO, VA  
STATION NAME

67-71, 73-78  
YEARS

MAY  
MONTH

ALL WEATHER  
CLASS

ALL  
GROUPS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.2	2.2	1.7	.3								7.0	4.1
NNE	.4	.1	1.1	.2								2.4	6.7
NE	.7	1.2	1.1	.3								3.0	6.0
ENE	.4	1.4	.7	.1								3.0	5.6
E	1.2	1.7	.6	.1								3.0	4.7
ESE	.7	1.0	.7	.1								3.4	5.1
SE	1.1	3.3	1.5	.2								6.1	5.5
SSE	1.7	4.1	2.7	.4								8.7	5.2
S	2.2	5.7	4.9	.6								14.2	5.9
SSW	1.0	2.7	2.3	.3								5.5	5.4
SW	.7	.7	.8	.1								1.7	5.4
WSW	.7	.4	.4			.1						1.0	5.1
W	2.2	1.4	.9									4.5	4.3
WNW	2.0	3.8	1.3	.3	.1							8.1	4.9
NW	2.0	4.1	2.1	.7	.1							10.0	5.5
NNW	1.2	2.7	2.6	.4								9.3	5.0
VARS													
CALM												11.7	
	27.5	32.3	24.5	3.8	.1	.1						170.0	5.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NO. 1173 STATION NAME PLANTICO, VA YEARS 67-71, 73-75 MONTH JUN

CLASS ALL WEATHER

CONDITION

MOUSE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	1.1										2.0	3.0
NNE		.										.	4.0
NE	1.1	1.1	1.1									3.0	5.0
NNE	.		1.1									1.1	6.0
E		1.1										2.0	4.0
ESE													
SE		.										.6	4.0
SSE	.	1.1	1.1	.6								3.0	6.7
S	1.1	2.0	4.4	1.7								17.2	5.6
SSW	1.1	1.9	1.7									11.7	4.0
SW	1.1	2.2	1.1									4.4	4.0
WSW	1.1	.		.6								2.0	4.3
W	.	.6										1.1	2.7
WWW	.	.6										1.1	3.2
NW	1.1	1.1	1.1									12.2	4.0
NNW	1.1	.6	.6									3.0	3.0
VARIABLE													
CALM												25.6	
	21.0	34.4	12.2	2.0								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 170

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, VA STATION NAME ASHEVILLE, VA YEARS 1971-73-76 MONTH JUN  
CLASS ALL WEATHER HOURS (L.S.T.) 04  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0										1.0	1.0
NNE			1.0									1.0	1.0
NE			1.0									1.0	1.0
ENE		1.0	2.0									3.0	2.0
E												1.0	1.0
ESE													
SE													
SSE		1.0										1.0	1.0
S	2.0	4.0	2.0									8.0	2.0
SSW	1.0	4.0	1.0									6.0	1.0
SW	1.0	1.0	1.0									3.0	1.0
WSW													
W	2.0	1.0										3.0	1.0
WNW	5.0	4.0	1.0									10.0	1.0
NW	2.0	9.0	1.0									12.0	1.0
NNW	1.0	4.0	1.0									6.0	1.0
VARBL													
CALM												24.0	
	2.0	34.0	17.0									53.0	3.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME STATION, VA YEARS 71-73-74 MONTH 07  
CLASS ALL WEATHER HOURS (L.S.T.) 07  
CONDITION \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.7	7.7	.									9.2	4.8
NNE		.	.									1.2	7.3
NE			1.									1.7	8.8
ENE		.	.									1.7	4.5
E	.	.										1.2	4.8
ESE		6.7	.									1.7	7.3
SE	.	1.7										1.7	4.5
SSE	.	2.	1.7									3.6	5.2
S	2.8	1.7	4.	1.6								16.7	5.9
SSW	2.	2.8	1.7									6.7	4.2
SW	1.7	.	1.7									3.2	7.1
WSW	1.	1.7	.4									3.2	3.5
W	2.	2.8										4.0	7.4
WNW	2.8	2.8	.4									6.4	7.6
NW	.4	6.4	2.									10.7	3.6
NNW	6.4	2.8	1.6									9.2	4.1
VARBL													
CALM												15.7	
	21.7	37.7	16.7	1.6								170.7	5.9

TOTAL NUMBER OF OBSERVATIONS 171

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 CRATICO, VA 02-71,73-78  
STATION NAME YEARS  
ALL WEATHER  
CLASS  
CONDITION  
JUN MONTH  
17  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	2.0	2.0	1.2								6.7	2.1
NNE	.4	2.0	2.0									4.4	6.4
NE	.4	1.6	.8									2.5	5.6
ENE	.4	.8	1.6									3.2	6.3
E	1.6	3.6	1.2									6.3	4.4
ESE	2.0	.8										3.2	2.8
SE	2.0	2.4	.8									5.2	4.3
SSE	3.6	2.0	2.4									15.6	4.6
S	2.0	13.6	6.7	.8								26.6	5.4
SSW	.8	1.2	1.6	.8								4.7	7.6
SW	1.6		.8									2.4	4.5
WSW		.8										.4	1.5
W		1.6	.4									2.7	5.6
WNW	1.2	1.2	.8									3.2	4.7
NW	1.6	3.6	1.2									6.3	4.9
NNW		1.6	1.2									4.7	7.0
VARBL													
CALM												3.6	
	21.6	46.4	25.0	2.8								100.0	1.3

TOTAL NUMBER OF OBSERVATIONS 100

SNOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

QUANTICO, VA  
STATION NAME

65-71, 73-78  
YEARS

1973  
MONTH

ALL WEATHER  
CLASS

1  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	2.0	.4								4.3	6.2
NNE	.0	.0	2.0									3.0	7.0
NE		.0	1.2	.4								2.0	6.6
NNE	.0	3.0	.0									4.0	5.1
E	1.2	3.1	.0									5.1	4.7
ESE	1.2	2.0										3.1	3.9
SE	2.0	5.5	1.0									9.0	4.7
SSE	2.0	9.0	3.0									16.0	5.0
S	2.0	14.6	8.0	.4								26.0	6.0
SSW	.0	1.0	1.0									2.0	5.8
SW	.0	1.2	.4	.0								2.0	7.1
WSW		.0	.0									1.2	5.3
W	.0	1.2	1.2									2.0	5.6
WNW	2.0	.4	.0									3.1	4.0
NW	.0	1.2	.0	.4								2.0	7.6
NNW	.0	2.0	3.1	.8								5.7	7.6
VARBL													
CALM												2.0	
	16.0	49.2	28.7	3.1								100.0	5.7

TOTAL NUMBER OF OBSERVATIONS

254

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 QUANTICO, VA 61-71,73-78 JUN  
STATION STATION NAME YEARS MONTH  
ALL WEATHER 16  
CLASS HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	2.7	2.8									4.5	4.0
NNE		1.4	.5									1.9	1.3
NE	.0	1.4	1.4									3.7	6.6
NNE	1.4	1.4	.5									3.7	4.0
E	1.4	2.8	.5									5.5	4.0
ESE	.0	2.8	.0	.5								7.1	7.4
SE	1.4	3.2	1.4									6.5	4.0
SSE	1.4	6.5	1.4	.5	.5							10.1	7.3
S	7.8	13.0	7.4	.5								29.0	9.3
SSW	.0	7.2	1.4									1.5	5.6
SW		.0	.0									1.0	7.0
WSW		1.0										1.0	4.0
W	1.4	2.7										4.1	7.7
WNW	.0	.0	.5									2.3	4.4
NW	1.4	.0	1.7									4.1	6.4
NNW	.0	2.8	2.3									5.5	6.2
VARIABLE													
CALM												7.7	
	21.7	48.8	24.4	1.4	.5							100.0	6.2

TOTAL NUMBER OF OBSERVATIONS 17

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1773  
STATION

CLATICO, VA  
STATION NAME

69-71, 73-78  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

10  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	1.0	1.0									2.0	5.4
NNE	.0	.0		.5								1.5	6.0
NE	1.0	1.5	.5									2.1	4.2
NNE	1.0	1.5	2.0									4.5	5.9
E	.0	2.0	.5									3.5	5.1
ESE	1.0	4.1	1.0									6.6	5.3
SE	1.0	3.1	3.1									7.1	6.2
SSE	1.0	5.1	3.1	.5								10.7	5.7
S	1.0	1.0	5.1	.5								15.8	5.7
SSW	2.0	1.0	.5									10.2	4.3
SW	.0	1.0										3.0	4.0
WSW	1.0	1.0										3.1	2.8
W	1.0											2.0	2.3
WNW	5.6	1.0	.5									7.1	3.1
NW	1.0	.5										2.0	2.3
NNW	1.0	3.1	1.5	1.0								6.6	6.4
VARB.													
CALM												11.2	
	24.0	40.0	19.4	2.6								100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

176

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

QUANTICO, VA  
STATION NAME

69-71,73-76  
YEARS

JUN  
MONTH

ALL WEATHER  
CLASS

22  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		0.2										0.2	3.0
NNE	0.2	0.2										1.1	4.0
NE	0.2	0.5	1.1									2.2	6.3
ENE	1.0	1.0	0.5									3.5	4.7
E		1.0	0.5									2.2	5.8
ESE		1.1	0.5									1.6	7.0
SE		2.7	1.1									3.8	6.0
SSE	0.2	3.3	3.3	0.5								7.7	6.4
S	1.1	12.6	4.4	1.6								19.9	6.4
SSW	1.1	4.4	0.5									6.6	4.7
SW	1.0	2.7										4.4	3.9
WSW	0.2	0.2										3.3	2.5
W	1.1											1.1	1.5
WNW	2.7	4.4										8.2	3.3
NW	1.6	4.9										6.6	3.6
NNW		1.0										1.0	4.3
VARB													
CALM												23.1	
	11.5	45.6	12.1	2.2								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 172

8808

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

QUANTICO, VA

STATION NAME

67-71, 73-76

YEARS

JUN

MONTH

ALL WEATHER

CLASS

ALL

HOURE (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	1.2	1.2	.2								3.6	6.1
NNE	.0	.0	.0	.1								2.1	7.4
NE	.4	.0	1.1	.1								2.0	6.4
NNE	.7	1.0	1.2									3.3	5.7
E	.0	2.2	.3									3.0	4.8
ESE	.7	1.0	.4	.1								2.0	4.7
SE	1.0	2.4	1.0									4.5	5.0
SSE	1.0	5.1	2.0	.2	.1							9.1	5.4
S	3.0	10.1	5.5	.9								10.0	5.2
SSW	1.0	4.0	1.3	.1								6.0	5.1
SW	1.0	1.3	.7	.1								3.0	5.0
WSW	1.2	.0	.2	.1								2.2	3.6
W	1.0	1.3	.2									3.0	3.6
WNW	1.3	2.3	.5									6.1	3.6
NW	1.4	4.0	1.0	.1								6.6	4.2
NNW	1.2	2.0	1.9	.2								5.0	5.8
VARIABLE													
CALM												12.0	
	22.0	42.5	10.6	2.1	.1							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS

1741

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1773  
STATION

QUANTICO, VA

STATION NAME

64-71.73-76

YEAR

JUL

MONTH

ALL WEATHER  
CLASS

01

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		1.0	.5									2.0	5.0
NNE													
NE	.5											.5	2.0
NNE													
E		1.0	.5									2.0	5.0
ESE		1.1										1.1	4.5
SE		.5										.5	5.0
SSE		1.1	.5									1.6	5.3
S	.5	5.3	2.7	.5								9.1	6.5
SSW	1.1	4.4	2.7	.5								10.7	5.9
SW	1.0	1.0	1.1									4.3	4.5
WSW	2.7	1.0	1.1									5.3	4.3
W	1.0	1.0										5.0	3.1
WWW	2.7	4.4	.5									8.0	4.1
NW	2.6	14.4										24.1	3.7
NNW	2.7	2.7										5.3	3.0
VARIABLE													
CALM												10.7	
	25.7	44.4	9.6	1.1								10.7	3.7

TOTAL NUMBER OF OBSERVATIONS

107

8805

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1773 QUINTICO, VA STATION NAME 67-71, 73-76 YEARS JUL  
ALL WEATHER MONTH 04  
 CLASS NOV 1956 (L.S.T.)  
 CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0										1.0	4.3
NNE		.5										.5	4.0
NE													
NNE		1.0										1.0	4.5
E	1.0	.5										2.0	2.4
ESE	.5											.5	2.0
SE	.5	.5										.5	3.5
SSE		.5	.5									.5	6.5
S	1.0	3.3	1.4									6.5	4.9
SSW	1.0	5.1	2.3									8.9	5.3
SW	1.3											2.3	2.6
WSW	.5		1.4									2.3	4.2
W	1.0		.5									1.0	3.0
WNW	.1	5.6	1.4									13.1	3.0
NW	7.0	17.3	2.3									20.0	4.0
NNW	1.0	6.1	.5									5.4	4.5
VARB													
CALM												77.1	
	27.1	35.5	10.7									100.0	3.1

TOTAL NUMBER OF OBSERVATIONS 214

8808

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17773  
STATION

QUANTICO, VA  
STATION NAME

60-71, 73-76  
YEARS

JUL  
MONTH

ALL WEATHER  
CLASS

27  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.2	2.0	.0									4.0	4.8
NNE	.0	.0	.0									.0	4.5
NE		.0	.0									.0	7.0
NNE	.0	.0	.4									1.0	4.5
E	.0	.0	.0									1.0	4.8
ESE	.0	.0										.0	7.0
SE		.0	.0									.0	7.0
SSE		.0										.0	5.0
S	2.4	7.0	2.4									12.0	5.1
SSW	.0	4.4	1.6									10.0	4.1
SW	.0	.0	.0									2.0	5.2
WSW	1.0	1.2										2.0	3.1
W	2.0	1.2										3.0	2.8
WNW	.0	4.4	.0									10.0	3.8
NW	7.4	6.2	2.4									19.9	4.3
NNW	3.0	6.4	1.6									11.0	4.5
VARB													
CALM												16.3	
	31.0	30.4	12.4									100.0	3.6

TOTAL NUMBER OF OBSERVATIONS 271

8808

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1773 STATION NAME CLAYTICO, VA 60-71,73-78 YEARS JUL MONTH 17 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNOTS) DIRECTION	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.2	3.7	2.0	.4								7.1	5.1
NNE	.5	1.6	.4	.4								2.7	6.6
NE	1.2	1.6	1.6									4.7	5.5
NNE	.5	1.6	1.2									7.1	5.6
E	2.7	3.6										6.7	3.6
ESE	1.2	1.6	.4									7.1	4.1
SE	1.1	3.7	1.2									7.8	4.2
SSE	4.3	.5	2.7									15.3	4.4
S	1.1	.5	4.3									16.4	5.0
SSW		1.0	1.6									7.1	6.6
SW	1.2	1.2										2.8	3.7
WSW	1.2	1.6										2.7	3.6
W	.5	1.6	.4									2.7	4.7
WWW	1.2	1.2	.4									2.7	4.3
NW		7.1	2.7	.4								5.5	6.8
NNW	.5	3.7	2.4									7.8	7.4
VARBL													
CALM												4.7	
	27.7	48.6	19.6	1.2								100.0	4.7

TOTAL NUMBER OF OBSERVATIONS 205

8808

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 0 5 TICO, VA STATION NAME ALL-WEATHER CLASS ALL-WEATHER YEARS 71, 73-78 MONTH JUL HOURS (L.S.T.) 17

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	1.0	.6									.1	5.6
NNE	.1	.1										.2	4.3
NE	.1	1.0	.1	.4								.1	4.6
NNE	.1	2.4	2.4									.1	4.7
E	1.0	3.0	.4									.5	4.5
ESE	1.0	1.2										.2	7.4
SE	2.0	5.0	.4									.1	4.5
SSE	2.0	3.7	1.9									15.4	5.3
S	.3	16.1	5.5	.8								27.6	5.4
SSW	.1	.4	1.1									3.4	7.7
SW	.1											.4	2.1
WSW	.1	1.2	.1									2.4	5.4
W	.1	2.0	.1									3.0	5.3
WNW	1.0	2.4	1.6	.4								5.0	5.5
NW	.1	4.3	.8									5.4	5.3
NNW	.4	2.1	2.1									4.7	6.4
VARIABLE													
CALM												1.0	
	1.1	5.5	27.2	1.6								100.0	5.3

TOTAL NUMBER OF OBSERVATIONS 274

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 2 ANTICO, VA 67-71, 73-78 J 1  
STATION NAME YEARS MONTH  
ALL WEATHER CLASS 1  
CONDITION HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	.	.	.								2.	5.7
NNE		1.	1.									2.	6.7
NE	1.4	.	.	.								3.	6.0
ENE	.	1.4	.									1.2	4.7
E	.	1.	.									5.2	5.4
ESE	.	1.		.								2.	5.8
SE	.	1.										2.3	7.4
SSE	.	5.7	4.1									17.4	4.9
S	.	14.7	5.7	1.4								25.4	5.7
SSW	.	4.1	.									4.0	4.9
SW	.	.	.									1.0	5.0
WSW	.											.	2.0
W	1.	2.	.									1.1	6.4
WNW	2.3	.	.									3.0	3.9
NW	1.4	2.	.	.								4.0	5.2
NNW	.	5.5	.									7.0	5.2
VARBL													
CALM												1.0	
	24.3	40.1	21.6	3.2								10.7	5.2

TOTAL NUMBER OF OBSERVATIONS 112

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 ASHEVILLE, VA STATION NAME 71.73-76 YEARS JUL  
MONTH 1  
HOURS (L.S.T.) 1  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.	1.									2.	5.1
NNE	1.	1.	1.	1.								2.	7.1
NE	1.	1.	1.	1.								2.	6.1
ENE	1.	1.	1.	1.								2.	5.1
E	1.	1.	1.	1.								2.	4.1
ESE	1.	1.	1.	1.								2.	5.7
SE	1.	1.	1.	1.								2.	5.3
SSE	1.	1.	1.	1.								2.	5.2
S	1.	1.	1.	1.								2.	5.5
SSW	1.	1.	1.	1.								2.	4.1
SW	1.	1.	1.	1.								2.	5.2
WSW	1.	1.	1.	1.								2.	1.
W	1.	1.	1.	1.								10.	3.4
WNW	1.	1.	1.	1.								3.	3.1
NW	1.	1.	1.	1.								2.	3.3
NNW	1.	1.	1.	1.								1.	2.1
VARBL													
CALM													
	1.	1.	1.	1.								10.	1.

TOTAL NUMBER OF OBSERVATIONS 6

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION  
173

STATION NAME  
ASHEVILLE, VA

STATION NAME

YEARS  
67-71, 73-76

YEARS

MOON  
JUL

MOON

CLASS  
ALL WEATHER

HOURS (L.S.T.)  
12

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.5		.5								2.0	5.6
NNE			.5									.5	.5
NE	.5											.5	2.0
ENE	.5	1.0										1.0	3.3
E	.5	.5	.5									2.0	4.0
ESE	.5	.5										1.0	3.0
SE	.5	1.0	.5									2.0	4.0
SSE	.5	2.0	3.0	.5								7.0	6.0
S	1.0	5.0	4.0	1.0								12.0	7.0
SSW	1.0	5.0	1.0									8.0	4.0
SW	.5	2.0										2.0	4.0
WSW	1.0	1.0	.5									3.0	3.0
W	1.0	.5										1.0	2.0
WNW	5.0	4.0	1.0									10.0	4.0
NW	1.0	1.0	.5									3.0	3.0
NNW	.5	2.0	.5									3.0	3.0
VARBL													
CALM												1.0	
	11.0	21.0	13.0	2.0								10.0	3.0

TOTAL NUMBER OF OBSERVATIONS

1

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 011100, VA 00-71,73-78 JNL  
STATION STATION NAME YEARS MONTH  
ALL WEATHER  
CLASS  
CONDITION  
ALL  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	.0	.0								1.0	5.5
NNE	.0	.0	.0	.1								1.0	6.2
NE	.0	.0	.0	.0								2.0	5.0
ENE	.0	1.0	.0									2.0	5.0
E	1.0	1.0	.0									2.0	4.4
ESE	.0	1.0	.0	.1								2.0	4.0
SE	1.0	2.0	.0									4.0	4.0
SSE	1.0	4.0	2.0	.1								8.0	5.2
S	2.0	.0	4.0	.5								16.7	5.6
SSW	1.0	3.0	1.0	.1								7.6	5.1
SW	1.0	.0	.0									2.0	4.0
WSW	1.0	.0	.0									2.0	4.0
W	1.0	1.0	.0	.1								3.0	3.0
WNW	1.0	3.0	.0	.1								7.0	4.0
NW	1.0	6.0	1.0	.1								11.0	4.3
NNW	1.0	3.0	1.0									6.0	4.7
VARB													
CALM												17.0	
	27.3	47.0	15.0	1.4								100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 1170

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 17 73 STATION NAME OATFICO, VA YEARS 62-71, 73-75 MONTH ALL WEATHER CLASS ALL WEATHER CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.1										1.1	1.1
NNE												1.1	1.1
NE		1.1										1.1	1.1
ENE		1.1										1.1	1.1
E												1.1	1.1
ESE												1.1	1.1
SE												1.1	1.1
SSE												1.1	1.1
S		2.2	1.1	1.1								3.4	3.4
SSW	1.1	4.4										5.5	5.5
SW		2.2										2.2	2.2
WSW		1.1										1.1	1.1
W		1.1										1.1	1.1
WNW	1.1	7.7	1.1									8.8	8.8
NW	1.1	1.1	1.1									3.3	3.3
NNW	1.1	1.1	1.1									3.3	3.3
VARBL												2.2	2.2
CALM												2.2	2.2
	2.2	3.3	4.4	1.1								10.0	10.0

TOTAL NUMBER OF OBSERVATIONS 16

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1073 LOCATION, VA 61-71, 73-76 YEAR 1973  
STATION NAME ALL-WEATHER CLASS 04  
CONDITION 0000 (L.S.V.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.0	1.4	1.0	.5								4.0	7.2
NNE		.0										.0	4.0
NE	.0	.0	.0									1.0	5.3
NNE		.0										.0	4.0
E		1.0										1.0	5.3
ESE													
SE	.0	.0										.0	2.0
SSE													
S	.0	2.3	1.0									5.1	6.5
SSW	7.7	5.6										6.3	7.0
SW	.0	1.0										7.0	4.7
WSW	.0	.0										1.0	3.7
W	1.0	1.4										1.0	3.1
WNW	6.0	6.0	.0									14.4	7.8
NW	7.9	12.0	1.4									22.2	4.0
NNW	7.0	4.0		.5								7.0	4.1
VARIABLE													
CALM												23.0	
	21.7	40.7	6.0	.9								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 11

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 6773 CANTICO, VA STATION NAME 67-71,73-78 YEAR 1973  
ALL WEATHER CLASS 27  
COUNTRY

SPEED (KTS) DRL	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.	.	.	.								1.7	5.5
NNE													14.0
NE			2.7									1.7	1.7
NNE		.										.	1.0
E	.	.	2.7									1.7	4.0
ESE		.										2.7	4.0
SE	.	2.7										2.7	1.7
SSE		.	2.7									2.7	4.0
S	.	4.3	2.7									7.0	4.3
SSW	2.7	4.7	1.7									6.7	4.3
SW	2.7		2.7									1.7	3.0
WSW	1.7	1.7										2.7	2.0
W	2.7	.										2.7	3.0
WNW	4.7	2.7										10.7	2.0
NW	1.7	1.7	2.7	2.4								24.7	4.1
NNW	2.1	7.0	2.7									14.0	4.4
VARB													
CALM												14.0	
	31.0	37.9	10.2	2.4								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS 15

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 STATION NO. 71,73-78 STATION NAME YEARS

ALL WEATHER CLASS

LOCATION

17 HOURS (L.S.T.)

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.4	7.1	1.1								7.7	7.6
NNE	.1	3.1	1.1	.4								6.1	6.5
NE	.1	3.1	1.1									1.4	5.6
NNE		1.4	1.1									4.1	6.1
E	.1	1.1	.4									7.3	4.1
ESE													
SE	1.4	3.1										7.1	3.6
SSE	1.4	6.1	1.1									11.1	4.4
S	.1	13.1	2.3									15.1	4.6
SSW	.1	.1	2.3									3.4	7.1
SW	.1	1.1	.4									2.3	4.3
WSW	.1	1.1										2.1	4.3
W	.1	1.1	1.1									3.1	5.3
WNW	.1	1.1										2.1	3.9
NW	.1	1.4										3.1	4.4
NNW	1.3	5.4	2.3	.4								10.3	5.1
VARS													
CALM												6.1	
	1.3	54.1	17.6	1.9								10.1	4.1

TOTAL NUMBER OF OBSERVATIONS 1

8808



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, VA DATE 60-71, 73-76 MONTH ALL

STATION NAME ALL WEATHER CLASS 17

LOCATION ASHEVILLE, VA

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N			.4	.4								4.0	5.2
NNE	1.1	1.1	1.1									4.0	5.9
NE		2.3	2.3									5.0	5.9
NNE		2.3	2.3									5.0	6.2
E		2.3	.4									5.4	5.7
ESE	1.1	1.1										7.1	3.6
SE	.3	5.7	.4									5.9	4.2
SSE	7.1	11.0	2.3									10.7	4.6
S	7.1	11.0	5.7	.4								19.8	5.4
SSW		1.1	1.1									2.7	5.7
SW			.4										7.0
WSW		1.1										1.1	4.7
W	1.1	7.1	.4	.4								1.1	4.6
WNW		1.1	.4									2.7	5.9
NW		2.3	1.1	.4								5.0	5.8
NNW		2.3	.4	.4								4.2	6.9
VARIABLE													
CALM												3.4	
	17.0	54.2	27.7	2.3								100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 242

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 01100, VA 67-71,73-78  
STATION NAME YEARS  
ALL EATHER  
CLASS  
CONDITION  
AUG  
MONTH  
16  
MOON (L.S.V.)

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N		2.7	1.3									3.7	5.9
NNE	.4	.7	1.3									2.7	5.5
NE		1.3	1.3	.4								4.7	7.1
NNE		1.1	2.7									5.4	6.5
E	1.1	3.1	.4									6.7	7.9
ESE	.7	1.3										1.7	3.5
SE	.7	3.1										4.5	4.7
ESE	1.1	7.2	1.3	.4								13.7	4.6
S	.4	12.6	4.7	.4								22.4	5.2
SSW	.7	2.7	.7									4.7	5.1
SW	1.7	.7	.4									2.7	4.3
WSW	1.7	.7										2.7	3.2
W	.7	1.7										4.5	4.7
WNW	1.7	2.7										4.7	3.2
NW	1.3	1.7	2.7									5.7	5.9
NNW	.7	1.1	2.7	.4								7.2	4.6
VARS												5.4	
CALM													
	22.7	51.1	19.7	1.3								170.5	4.1

TOTAL NUMBER OF OBSERVATIONS 23

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 ASHEVILLE, VA STATION NAME ASHEVILLE, VA YEARS 71-73-78 MONTH ALL  
CLASS ALL  
CONDITION ALL  
UNITS U.S.S.T.

SPEED (KNOTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	1.0	1.0										1.0	4.0
NNE			1.0									1.0	6.0
NE				1.0								1.0	7.5
NNE		1.0	1.0									1.4	6.3
E	1.0	1.0	1.0									1.4	4.4
ESE		4.0	1.0									5.0	5.2
SE	1.0	4.0	2.0									6.7	5.7
SSE		1.0	2.0									3.0	6.5
S		2.0	1.0									3.0	5.5
SSW	1.0	2.0	1.0									3.0	5.0
SW	2.0	1.0										3.0	2.0
WSW	1.0	1.0										2.0	2.4
W	1.0	2.0										3.0	1.2
WNW	6.0	1.0										7.0	2.3
NW	2.0	2.4	1.0									5.4	3.7
NNW	1.0	1.5	1.0									4.4	4.6
VARIABLE													
CALM												27.2	
	27.2	31.1	14.1	1.0								100.0	5.2

TOTAL NUMBER OF OBSERVATIONS 27

8805

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 QUANTICO, VA DATE 6-71, 73-76 MONTH NORTH  
STATION NAME CLASS ALL WEATHER HOURS (L.S.T.) 22  
CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1			.1								1.1	1.1
NNE		1.1	.1									1.1	5.7
NE	.1	.1	1.1									2.1	5.3
NNE		1.1										1.1	4.7
E	.1											.1	2.1
ESE		.1	.1									1.1	4.5
SE	1.1	1.1										2.1	3.6
ESE	.1	1.1	1.1									2.1	5.4
S	1.1	4.2	5.3	.1								11.1	6.4
SSW	.1	1.1	.5									2.1	4.6
SW		.1	1.1									1.1	5.3
WSW	.1	1.1	.1									2.1	4.2
W	1.1	1.1										2.1	7.2
WNW	.1	1.1	.1									2.1	3.2
NW	7.1	5.1	1.1									13.1	3.7
NNW	.1	1.1	1.1									2.1	4.1
VARBL													
CALM												2.1	
	21.4	13.4	17.1	1.1								110.1	5.3

TOTAL NUMBER OF OBSERVATIONS 91

8806

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, VA STATION NAME AS - 71, 73-78 YEARS 1973 MONTH ALL  
CLASS ALL WEATHER  
CONDITION ALL  
HOURS (L.S.T.) ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	1.0	.4								3.0	5.0
NNE	.0	1.0	.0	.0								2.0	4.7
NE	.0	1.0	1.0	.1								2.0	5.2
ENE	.1	1.0	.0									1.0	5.1
E	.0	1.0	.0									2.0	4.3
ESE	.0	1.0	.0									1.0	4.4
SE	1.0	2.0	.5									4.0	4.4
SSE	1.0	4.0	1.0	.1								7.0	4.0
S	1.0	4.0	2.0	.0								12.0	5.3
SSW	1.0	3.0	1.0									5.0	4.7
SW	.0	1.0	.0									2.0	4.4
WSW	.0	1.0	.1									1.0	3.5
W	2.0	1.0	.0	.1								4.0	3.7
WNW	1.0	1.0	.3									2.0	3.7
NW	4.0	4.0	1.0	.1								12.0	4.2
NNW	2.0	4.0	1.0	.3								10.0	4.5
VARS													
CALM												10.0	
	24.0	43.7	14.1	1.4								100.0	4.6

TOTAL NUMBER OF OBSERVATIONS 179

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1773 ASHEVILLE, VA STATION NAME ASHEVILLE, VA YEARS 66-71, 73-75 MONTH 01  
 CLASS ALL WEATHER  
 CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.7	0									7.0	5.4
NNE		1.7										1.7	7.3
NE		0										0	0
NNE		0	0.6									1.1	7.7
E	1.1	1.1										2.2	3.6
ESE	0	0.6	0									1.7	7.7
SE	0	0.6										1.1	4.5
SSE		0.2										2.2	5.5
S	1.7	1.3	0.6									3.6	4.0
SSW	1.0	2.0	1.1									7.8	4.2
SW	0	1.7	0									2.0	5.7
WSW		0										0	7.0
W	1.2											2.2	2.7
WNW	0.4	0										0.4	3.6
NW	1.1	1.0	1.7									2.0	4.7
NNW	1.3	4.4	3.6									11.7	5.0
YARM													
CALM												21.0	
	2.0	41.7	2.4									110.0	7.3

TOTAL NUMBER OF OBSERVATIONS 110

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973

ASHEVILLE, VA

STATION NAME

6-71.73-75

YEARS

NORTH

ALL WEATHER

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	2.2	1.7	.6								1.0	2.5
NNE		1.0	.6									1.0	2.5
NE		.	.6									1.1	2.5
ENE	.	1.1										1.1	4.0
E	.1	.										1.0	4.0
ESE	.		.6									1.1	.
SE			.									.	10.0
SSE		.										.0	2.0
S	1.1	1.0	.6									1.0	4.0
SSW	2.0	2.0	2.2									1.8	.1
SW	.	1.7	.6									1.0	4.0
WSW	1.1											1.1	2.0
W	1.0	.6	.6									2.0	1.0
WNW	.	1.0	.6	.6								10.0	4.0
NW	11.1	14.4	.6									20.1	3.7
NNW	1.1	7.2	1.7									10.0	4.0
VARB													
CALM												2.0	
	27.2	3.2	10.6	1.1								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS

100

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 STATION NAME ASHEVILLE, VA YEARS 71-73-74 NORTH 10  
CLASS ALL WEATHER  
CONDITION   
HOURS (L.S.T.) 07

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.0	1.0									1.0	3.0
NNE		1.0	1.0									2.0	6.0
NE	.0	1.0	.0									2.0	3.0
ENE	.0	.0	.0									2.0	2.0
E	.0	2.0										2.0	4.0
ESE													
SE		.0										.0	1.0
SSE		.0										.0	.0
S	1.0	0.0	1.0	.0								2.0	4.0
SSW	1.0	1.0	.0									2.0	2.0
SW	.0	1.0										1.0	2.0
WSW													
W	2.0	.0										2.0	2.0
WNW	.0	2.0	.0									.0	.0
NW	1.0	11.0	.0									12.0	2.0
NNW	.0	.0	.0									1.0	1.0
VARBL													
CALM												1.0	
	2.0	40.0	10.0	.0								52.0	.7

TOTAL NUMBER OF OBSERVATIONS 73

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

ALL EARTH

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		2.0	2.0	2.0	2.0							2.0	2.0
NNE	1.0	1.0	2.0									4.0	2.3
NE	1.0	2.0	2.0									7.0	2.6
ENE	1.0	2.0	1.0	2.0								6.0	4.1
E	1.0	4.0	1.0									6.0	4.2
ESE	1.0	1.0										2.0	2.3
SE	1.0	2.0										3.0	3.0
SSE	1.0	2.0	1.0	2.0								6.0	4.1
S	1.0	2.0	2.0									5.0	4.4
SSW	1.0	2.0	1.0									4.0	4.1
SW	1.0	1.0	1.0	2.0								5.0	7.4
WSW	1.0	1.0	1.0									3.0	2.3
W	1.0	1.0	1.0									3.0	2.3
WNW	1.0	1.0	1.0									3.0	4.7
NW	1.0	1.0	1.0									3.0	5.0
NNW	1.0	2.0	2.0	2.0	2.0							10.0	5.7
VARBL													
CALM												1.0	
	21.0	42.0	24.1	2.0	2.0							100.0	5.6

TOTAL NUMBER OF OBSERVATIONS

240

SMOS

13  
4  
NAME  
DATE

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 ASHEVILLE, VA STATION NAME ASHEVILLE, VA YEARS 66-71, 73-76 MONTH ALL  
 CLASS EASTERN  
 CONDITION   
 HOURS (L.S.T.) 11

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.0	7.0									7.0	7.1
NNE	0	2.0	1.0	0.4								3.4	2.5
NE	0	2.0	1.0									3.0	2.0
ENE	0	1.0	1.0									2.0	1.1
E	0	2.0										2.0	1.0
ESE		0										0.0	0.0
SE	2.0	4.0	0.0									6.0	4.2
SSE	2.0	11.0	1.0									14.0	4.5
S	0	15.0	2.0									17.0	4.6
SSW	0	1.0	2.0									3.0	2.0
SW	0		0									0.0	0.0
WSW		0	0.0									0.0	0.0
W	0	0										0.0	0.0
WNW		0										0.0	0.0
NW	0	2.0	3.0									5.0	2.0
NNW	1.0	3.0	2.0	0.4								6.4	2.0
VARBL													
CALM													
	17.0	5.0	22.0	1.2								45.2	5.1

TOTAL NUMBER OF OBSERVATIONS 240

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 STATION NAME ASHEVILLE, VA 50-71.73-78 YEARS MONTH 14  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	1.4	2.4									6.3	4.3
NNE	.0	.0	2.0									2.0	2.6
NE	1.0	1.4	1.0	.5								4.0	5.5
ENE	2.4	3.0	1.0	.5								7.9	4.1
E	1.0	1.4	.5									3.0	3.6
ESE	1.0	1.4										2.4	4.4
SE	1.4	1.0	1.4									4.0	5.0
SSE	1.4	5.0	1.0									11.1	4.7
S	.7	16.0		.5								27.1	4.1
SSW	1.0	2.4										3.5	3.6
SW	.0	.0										1.0	3.5
WSW	1.0	1.4										2.4	3.4
W	2.0	1.0										3.4	2.7
WNW	1.0	1.0	1.4									3.0	5.0
NW	.0		.5									1.0	4.5
NNW		2.0	2.4	.5								5.0	5.7
VARBL													
CALM												6.0	
	30.0	45.0	15.5	1.0								100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 107

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, VA STATION NAME ASHEVILLE YEAR 1973-78 MONTH 10  
CLASS LL EARTH HOURS (LST) 15  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	1.1	1.1									2.2	4.0
NNE		0	0	0								1.0	5.0
N E		0	1.1									1.0	7.3
ENE		1.1	0.5									1.0	5.7
E	1.1	3.3	1.1									4.1	4.9
ESE	0	1.1	0									2.0	4.9
SE	0	3.3	1.1									4.0	5.4
SSE	0	4.4	1.1									6.0	7.4
S	0	2.2	0	1.1								3.9	4.4
SSW	1.1	3.3	0.5									4.1	5.0
SW	0	0										1.1	3.0
WSW	1.1											2.1	1.0
W	4.4	1.1										5.0	2.6
WNW	2.2	0										7.0	2.0
NW	1.1	3.3		0								6.0	4.1
NNW	1.1	2.2	1.1	0.5								6.0	0.2
VARB.													
CALM												6.0	
	20.0	30.0	10.0	2.6								100.0	3.3

TOTAL NUMBER OF OBSERVATIONS 15

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: SAVANNAH, VA YEARS: 64-71, 73-75 MONTH: SEP

CLASS: ALL WEATHER HOUR: 02

CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.0										1.0	5.3
NNE			.5									.5	8.0
NE		.5	.5	.5								1.5	9.3
NNE			.5									.5	10.0
E	1.1	1.0	.5									2.6	4.8
ESE	1.1	.5										1.6	3.3
SE	.5	2.2	.5									3.2	4.8
SSE	1.0	1.1	1.1									3.2	4.9
S	1.1	2.0	2.0	1.1								6.2	7.2
SSW	2.2	2.0	1.0									5.2	5.3
SW			.5									1.1	4.5
WSW		1.1										1.1	4.0
W	1.0	1.0	.5									2.5	7.7
WNW	.5	3.3	.5									4.3	3.5
NW	1.2	7.2	1.1	.5								9.0	3.4
NNW	2.2	4.4	1.1	.5								8.2	5.1
VARBL													
CALM	X	X	X	X	X	X	X	X	X	X	X	10.0	
	12.2	32.2	12.2	2.6								100.0	3.0

TOTAL NUMBER OF OBSERVATIONS: 100

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 2 MONTH, VA 8-71, 73-78  
STATION MONTH YEARS  
ALL WEATHER  
CLASS  
CONDITION  
ALL  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N	.1	2.0	2.2	.1	.1							4.0	6.0
NNE	.1	1.2	1.7	.1								2.0	5.7
NE	.1	1.4	1.0	.1								2.1	5.8
NNE	.1	1.7	.9	.1								2.4	5.2
E	1.0	2.3	.4									4.0	4.0
ESE	.1	.5	.2									1.0	4.1
SE	.1	2.1	.5									3.7	4.6
SSE	2.0	4.0	.0	.1								7.6	4.6
S	.1	7.6	1.8	.4								13.0	4.7
SSW	1.0	2.7	1.1									5.0	4.8
SW	.1	.7	.5	.1								1.0	.1
WSW	.1	.7	.1									1.0	.1
W	2.1	.1	.1									2.0	2.0
WNW	2.3	2.4	.9	.1								5.0	3.0
NW	1.5	6.5	1.1	.1								14.0	3.9
NNW	1.0	4.7	2.7	.4								9.0	5.7
VARB													
CALM												14.4	
	27.4	41.5	15.7	1.5	.1							100.0	4.1

TOTAL NUMBER OF OBSERVATIONS 1603

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973  
STATION

QUANTICO, VA  
STATION NAME

69-71, 73-75  
YEARS

000  
MONTH

ALL WEATHERED  
CLASS

NOVRS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		1.2	1.1									3.2	6.0
NNE		2.7	0.5	0.5								3.8	6.6
NE	1.1	1.1	0.5	0.5								3.2	6.0
ENE		1.1	1.6									3.2	7.0
E		2.2	0.5									3.2	6.4
ESE	0.5			0.5								1.1	7.0
SE		1.1	0.5									1.0	5.7
SSE		0.5										0.5	4.0
S	0.5	2.7	1.1									4.3	5.4
SSW	1.0	1.0	1.1									4.3	4.8
SW		0.5	1.1									2.2	5.9
WSW		1.1										1.1	0.5
W	0.5	0.5										1.1	3.5
WNW	0.2	3.0	1.1									3.2	5.0
NW	11.0	13.0	1.1									1.7	3.9
NNW	2.2	0.5	1.6	1.1								10.0	5.2
VARBL													
CALM												14.7	
	20.4	46.7	12.4	2.7								10.0	4.1

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1173 STATION NAME QUINTON, VA YEARS 65-71, 73-76 MONTH 06  
CLASS ALL WEATHER HOURS (L.S.T.) 04  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	2.0	2.0									5.0	6.3
NNE		.0	1.0									1.0	1.3
N E		1.0	2.0									4.0	7.3
ENE	1.0	1.0	1.0									3.0	6.4
E	1.0	1.0	.0									2.0	4.0
ESE		.0										.0	6.0
SE		.0										.0	4.0
SSE	.0		.0	.0								1.0	7.0
S	1.0	1.0										2.0	3.0
SSW	1.0	1.0										1.0	3.6
SW	.0	1.0	.0									1.0	1.0
WSW		.0										.0	1.0
W	1.0	1.0										2.0	3.6
WNW	.0	5.0	.0									11.0	3.7
NW	1.0	14.0	2.0									16.0	4.2
NNW	2.0	3.0	7.0	1.0								10.0	5.0
VARBL													
CALM												16.0	
	20.0	30.4	15.4	1.4								100.0	4.0

TOTAL NUMBER OF OBSERVATIONS \_\_\_\_\_

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1773 STATION NAME DANVILLE, VA YEARS 61-71, 73-77 MONTH 07  
CLASS ALL LEATHERS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	1.3	4.	.4								7.4	7.4
NNE		.										4.1	4.1
NE	.	1.	1.7	.7								7.5	7.5
ENE	.	1.3	.4	.4								5.7	5.7
E	.	.7	.4									4.6	4.6
ESE													
SE		.	.4	.7								9.3	9.3
SSE		.										4.5	4.5
S	.	1.	.7									5.3	5.3
SSW	.	2.7	.7									5.7	5.7
SW	.	.4										7.0	7.0
WSW	.		.7									4.0	4.0
W			.									10.7	10.7
WNW	.	4.4	1.7									4.5	4.5
NW	13.7	15.7	4.									4.1	4.1
NNW	7.7	7.1	3.1	1.3								5.9	5.9
VARBL													
CALM												17.7	
	24.7	3.5	10.1	4.0								10.7	4.4

TOTAL NUMBER OF OBSERVATIONS 224

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 173 STATION NAME SHELICO, VA YEARS 71-73-77 MONTH 11  
CLASS ALL WEATHER HOURS (L.S.T.) 11  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	2.	2.	1.3								7.	7.
NNE	.	3.1	1.	.4								5.	6.1
NE	1.	2.	7.2	1.3								4.	7.
ENE	.	2.4	1.									4.	6.2
E	.	2.	.4									3.	4.7
ESE	.	.4										.4	4.7
SE	1.	1.3	.4									6.1	3.7
SSE	.4	4.4	.4									7.6	4.4
S	4.	4.3	2.2	.4								15.	5.6
SSW	.	1.3	.									2.	5.4
SW													
WSW	.4	.										1.	4.7
W		1.	.4									1.	.
WNW	1.3	.	1.3									3.	5.4
NW	1.	3.6	1.3	.4								7.	6.9
NNW	1.	3.1	4.4	4.4								13.	5.5
VARS													
CALM												4.6	
	21.1	31.5	21.2	3.4								10.0	5.5

TOTAL NUMBER OF OBSERVATIONS 2

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73 000000, VA 60-71, 73-77

STATION NAME YEARS

LL WEATHER

CLASS

CONDITION

17

HOURLY (L.S.V.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56		MEAN WIND SPEED
N	1.7	.	1.7	2.6								.1	2.5
NNE	.4	.	1.7	.4								1.1	7.5
NE	.	1.7	1.7	1.3								2.1	7.3
NNE	.	4.	1.1									1.7	1.7
E	.	5.										1.5	4.7
ESE	1.	1.7	.4		.4							2.	3.7
SE	.	2.1										3.	4.6
SSE	.	5.7	.9									10.	4.7
S	.7	.4	2.2									17.0	4.6
SSW	.	.7	1.7									3.	6.4
SW		.4	.									1.7	.
WSW		.4	.	.4								1.	2.3
W		.	1.7									1.3	.6
WNW		1.	1.	.4								3.	7.4
NW	.	2.1	3.7	1.3								.7	7.4
NNW	.	1.7	2.6	3.1								.	7.1
VARBL													
CALM												5.	
	1.7	41.	24.5	9.6	.4							10.1	2.

TOTAL NUMBER OF OBSERVATIONS 10

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 STATION NAME ASHEVILLE, VA YEARS 61-71, 73-77 MONTH 11 HOURS (L.S.T.)

ALL WEATHER CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		0.	0.	1.								0.1	0.3
NNE		0.	1.	1.								2.4	0.4
NE	1.	4.4	1.									6.	0.7
ENE	1.	2.	1.	0.5								1.7	0.
E	1.	2.4										3.	0.3
ESE	0.	1.	0.									1.	0.3
SE	0.	1.4		0.								4.4	0.4
SSE	1.	2.	1.									5.	0.5
S	1.4	1.4	2.			0.						23.	0.5
SSW	1.	2.4	1.									4.	0.7
SW	0.	1.	1.									2.	0.6
WSW	0.	0.										1.0	0.5
W		0.	1.									1.	0.5
WNW	0.	2.	0.									3.	0.3
NW	0.	1.	0.	1.								2.	0.5
NNW	0.	1.	1.	1.								1.	0.7
VARS													
CALM													
	11.4	40.	22.3	9.7		0.						100.	0.2

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 173 STATION NAME ASHEVILLE, NC YEARS 1971, 73-77 MONTH 17  
CLASS LL WEATHER  
CONDITION   
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 14	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		0	1									0.1	0.0
NNE		0	1									0.1	0.0
NE		0	2	0								0.1	0.0
ENE	0	0	1									1.0	0.0
E	0	1	1									2.0	0.0
ESE	0	1	0	0								2.0	0.0
SE		0	1									4.0	0.0
SSE	1	1	0									0.1	0.5
S	0	0	0									0.7	0.0
SSW	0	1	1									2.0	0.0
SW	0	0	0									0.0	0.0
WSW	0	0										0.0	0.0
W	0	0										0.0	0.0
WNW	0	0										0.7	0.0
NW	0	0	1									1.0	0.0
NNW	0	0	2	1								0.0	0.0
VARBL													
CALM												0.1	
	0.1	0.0	1.0	2.1								10.0	0.0

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, VA YEARS: 71, 73-75 MONTH: 12  
CLASS: ALL DATA HOURS (L S T): 12  
CONDITION:

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	2.0	2.0									4.0	5.7
NNE	.											.	1.0
NE		1.0	1.0	1.0								3.0	7.5
ENE		1.0	1.0									2.0	1.0
E		1.0										1.0	4.7
ESE		1.0	1.0									2.0	7.0
SE	.											.	3.0
SSE	1.0	2.0	1.0									4.0	5.4
S	1.0	2.0	1.0									4.0	1.1
SSW		1.0	1.0									2.0	1.1
SW		1.0	1.0	1.0								3.0	1.0
WSW	.											.	1.0
W	1.0	1.0	1.0									3.0	1.1
WNW	1.0	1.0	1.0									3.0	1.1
NW	1.0	1.0	1.0									3.0	1.4
NNW	1.0	1.0	1.0									3.0	1.1
VARBL													
CALM												1.0	
	27.0	17.0	11.0	1.1								1.0	1.7

TOTAL NUMBER OF OBSERVATIONS: 12

SMOS

10  
4NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NCPERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

## SURFACE WINDS

STATION	STATION NAME	YEARS	MONTH
73	101, VA	71-73-77	
ALL EAST			
CLASS			
CONDITION			

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	7.1	2.4	.								5.	7.3
NNE	.	1.2	.	.3								2.	4.9
NE	.	7.	10.7	.7								5.7	7.3
ENE	.	2.1	1.7	.1								4.0	4.7
E	.	7.7	.3									7.4	4.6
ESE	.	.	.7	.1	.1							1.	5.9
SE	.	1.7	.7	.3								2.7	5.1
SSE	1.	2.7	.7	.1								4.3	4.4
S	.	7.7	1.7	.1		.						10.7	4.7
SSW	.	1.7	1.									3.	5.3
SW	.	.	.7	.1								1.	5.1
WSW	.	.	.3	.1								1.1	5.
W	.	.	.									5.7	4.6
WNW	7.	7.3	1.	.1								6.	4.2
NW	.3	3.7	1.7	.4								17.9	4.3
NNW	1.	3.	7.4	1.7								10.	5.
VARBL												15.7	
CALM													
	20.1	3.9	17.7	4.6	.1	.1						10.7	4.6

TOTAL NUMBER OF OBSERVATIONS 1-62

SMOS

4  
24004437  
723

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 STATION NAME ALL WEATHER CLASS MONTH YEARS 71, 73-75 HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1	2.0	5.0	1.1								7.7	5.0
NNE	1.1	1.1										2.2	1.1
NE		.										.1	5.0
NNE	.	.										1.1	3.0
E	1.1	.										2.2	2.0
ESE		.	.									1.1	7.0
SE	1.1	.	.2									2.0	3.0
SSE													
S	1.1	2.0	1.1									4.2	1.1
SSW	1.1	2.4	.1	.6								5.2	1.3
SW		.1	1.1									2.2	.5
WSW		.	.									1.1	7.5
W	.4	.2										3.0	2.4
WNW	.4	.1	.6	.6	.6							12.0	5.3
NW	11.2	.	7.4	1.1								24.7	4.3
NNW	.1	2.4	2.0	2.0								6.0	7.4
VARBL													
CALM												17.0	
	1.1	34.0	12.0	5.6	.6							10.0	4.2

TOTAL NUMBER OF OBSERVATIONS 17

SMOS





NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, VA YEARS: 66-71, 73-75 MONTH: NOV

CLASS: ALL WEATHER

CONDITION:

STATION: 73 HOURS (L.S.T.): 14

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	1.7	2.7	.6								5.6	7.0
NNE	.											.	7.0
NE		.										.	7.0
ENE	.	.										1.1	4.5
E		.										.	4.5
ESE													
SE		1.1										1.1	5.0
SSE		.										.	4.0
S		.	1.7	1.1								5.6	7.4
SSW	.	2.7										7.4	4.7
SW	.	1.7										7.4	4.7
WSW	1.1	1.7		.6								7.4	5.0
W	1.7	2.7										4.5	3.0
WNW	2.7	2.7	.6	.6								7.4	4.5
NW	.6	7.4	7.4	.6								17.0	4.5
NNW	.6	7.4	7.4	.6								17.0	5.3
VARBL													
CALM												2.7	
	10.7	37.0	11.7	3.9								10.7	3.7

TOTAL NUMBER OF OBSERVATIONS 17

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, VA YEARS: 71-73-77 MONTH: NOV  
CLASS: ALL WEATHER HOURS (L.S.T.): 07  
CONDITION: \_\_\_\_\_

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	2	1	0								0	0.0
NNE	0	0										1	0.7
NE			1									1	0.7
ENE												0	0.0
E		1		0								1	0.7
ESE													
SE		0	0									1	0.7
SSE	0	0	0									1	0.7
S	0	2	0	1								0.5	0.0
SSW	0	1	0									0.5	0.0
SW		0	0									1	0.7
WSW	0	1	0									0.5	0.0
W	1	0		0								0.5	0.0
WNW	0	0	1		0.5							1.5	0.0
NW	0.5	12	2									20.5	4.4
NNW	1	7	4	2								14.4	6.4
VARBL													
CALM												10.9	
	21	3	14	4.5	0.5							100	4.3

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, VA STATION NAME ASHEVILLE, VA YEARS 60-71, 73-77 MONTH N

CLASS ALL WEATHER

CONDITION

HOUSE (U.S.T.) 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	1.0	2.0	1.4								5.0	3.8
NNE	.3	.5	1.0									4.0	3.0
NE	1.0	2.0	.5									3.1	4.5
ENE	.	1.0	.5									2.3	4.6
E	.	.5										1.0	3.3
ESE	.	.	.5									1.0	4.0
SE	.	.										1.0	2.7
SSE	1.0	4.0										5.0	4.1
S	.5	1.0	3.2	.5								10.9	5.1
SSW	.	.	.5	.5								1.5	7.3
SW	.5	.	1.0	.5								3.0	6.0
WSW		2.7	.	.5								3.7	6.5
W	1.0	.	1.0	.5								4.0	6.7
WNW	.	1.0	3.2		.5							6.0	7.0
NW	1.0	1.0	3.2	.5								1.0	6.9
NNW	.	2.3	7.4	1.4	.5							12.0	.5
VARB													
CALM												10.1	
	10.9	35.0	28.6	6.0	1.0							100.0	5.7

TOTAL NUMBER OF OBSERVATIONS 17

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

1973 STATION 0 ANTICO, VA STATION NAME 00-71,73-77 YEARS NORTH  
ALL FATHOM CLASS  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	1.4	2.7	.6								5.4	7.8
NNE	.	.9	2.3	.5								4.4	6.4
NE	.	1.4	.4									2.7	5.2
NNE		.	.									1.4	6.3
E	.	.	.6									1.9	4.6
ESE		.		.7								.7	3.7
SE	1.4	2.3										3.7	4.6
SSE	.7	3.7	.6									.6	3.6
S	1.7	1.4	7.8	1.6								23.7	6.1
SSW		1.	2.3									3.7	7.1
SW		.	2.3	.5								3.7	4.4
WSW		.7	.7									1.2	5.7
W		.	2.7	.5								4.1	.4
WNW		1.	2.7	2.7	.5							6.7	7.7
NW	.	1.7	2.7	4.6		.5						11.7	9.7
NNW	.	2.3	1.	2.3								6.	4.9
VARBL													
CALM												.5	
	17.3	35.6	31.1	14.6	.5	.7						10.5	4.7

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 1173 ASHEVILLE, VA STATION NAME 50-71.73-77 YEARS NORTH  
CLASS ALL WEATHER  
CONDITION 10  
HOURS (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.	0.0	0.0	0.0								0.0	6.4
NNE		1.0	1.0									2.0	7.3
NE	.	2.0	1.0									3.0	5.4
ENE	.	1.0	0.0									0.0	4.5
E	.											.	2.0
ESE	1.0	0.0	0.0	0.0								1.0	5.0
SE	.	2.0	1.0									3.0	5.6
SSE	0.0	1.0	1.0									0.0	4.5
S	0.4	6.0	0.0	0.0								10.0	5.0
SSW	.	2.0	1.0									0.0	5.9
SW	.	2.0	0.0	0.0								4.0	6.1
WSW	.	1.0	1.0	0.0								4.0	6.9
W	.	0.0	0.0	0.0								3.0	6.6
WNW	1.0	2.0	2.0	1.0								7.0	7.2
NW	1.0	2.0	2.0	1.0	0.0							0.0	6.1
NNW	.	1.0	6.0	4.0								12.0	6.2
VARB													
CALM												0.0	
	10.3	32.0	29.7	9.9	0.0							100.0	5.0

TOTAL NUMBER OF OBSERVATIONS 100

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17 73 STATION QUANTICO, VA 19-71, 73-77 YEARS MONTH 10  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.4	1.1									1.5	1.0
NNE		.4										.8	1.0
NE		.4	.7									1.1	1.0
ENE	.4	1.1										1.5	1.7
E	1.1											1.1	1.4
ESE	.4	.4	.4									1.2	1.0
SE	.4	.4	1.1									1.2	1.4
SSE		1.1	.7									1.7	1.7
S	1.3	1.1	1.7									3.8	4.4
SSW	1.2	1.1	2.2	.6								5.8	1.5
SW		1.2	1.1									2.3	1.8
WSW	.4	.4										1.1	1.0
W	.4	.4		.6								3.1	4.1
WNW	.4	.4	1.1	.6								2.5	4.1
NW	1.3	1.1	2.2	1.1								11.2	1.5
NNW	1.7	1.1	1.1	1.1	.6							13.0	7.5
YARBL													
CALM												23.0	
	21.1	32.1	17.7	3.6	.6							100.0	4.2

TOTAL NUMBER OF OBSERVATIONS 1

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

17 73  
STATION

CLATSICO, VA  
STATION NAME

65-71, 73-77  
YEARS

NORTH

ALL WEATHER  
CLASS

10

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N		.1	1.1									1.5	4.9
NNE		.1										.1	4.0
NE		.1	.1									1.1	4.7
ENE	.1	1.1										1.1	3.7
E	.1											1.1	1.9
ESE	.1	.1	.1									1.1	1.1
SE	.1	.1	1.1									1.2	5.5
SSE		.1	.1									1.7	9.0
S	1.3	1.1	1.7									3.8	4.4
SSW	.7	1.1	2.2	.6								3.8	1.5
SW		.1	1.1									1.3	5.8
WSW	.1	.1										1.1	3.5
W	.1	.1		.6								1.1	4.1
WNW	.4	.1	1.1	.6								1.1	4.1
NW	1.3	5.0	2.2	1.1								11.2	5.5
NNW	1.1	5.0	5.6	1.1	.6							13.1	7.5
VARBL													
CALM												21.1	
	21.1	32.1	17.7	3.4	.6							10.2	4.2

TOTAL NUMBER OF OBSERVATIONS 11

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 173 ASHEVILLE, VA STATION NAME ASHEVILLE, VA YEARS 71-73-75 MONTH 4  
CLASS ALL WEATHER HOURS (L.S.T.) 12  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	2.0	1.0									4.5	5.0
NNE													
NE	.0	.0	1.0									1.0	1.0
NNE			.0									1.0	1.0
E		.0	.0									1.0	1.0
ESE	.0											.0	2.0
SE		.0	.0									2.0	5.0
SSE	.0	.0	1.0									2.0	1.3
S	.0	3.0	3.0									6.0	1.4
SSW	.0	2.0	1.0									4.5	4.4
SW	.0	1.0		.0								2.0	5.0
WSW	.0	2.0										1.4	4.0
W	.0	.0	.0									1.0	1.0
WNW	1.4	6.7	1.0	.0								11.0	5.3
NW	1.7	1.4	1.7	2.0								0.2	5.0
NNW	1.4	5.6	3.4	2.2								14.0	6.2
VARIABLE													
CALM												17.0	
	20.0	3.0	1.0	6.2								10.0	4.5

TOTAL NUMBER OF OBSERVATIONS 17

8808



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NAME: ASHEVILLE, VA YEARS: 1971, 73-77 MONTH: ALL

CLASS: ALL WEATHER

CONDITION: ALL

HOURLS (L.S.T.): ALL

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SSW	.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	6.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	4.0	4.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VARBL													
CALM													
	1.0	3.0	2.0	7.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0

TOTAL NUMBER OF OBSERVATIONS 154

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 173 STATION NAME ASHEVILLE, VA YEARS 61-71, 73-75 MONTH NORTH  
CLASS ALL WEATHER HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	0.7	1.1	.5								7.7	4.0
NNE	1.1	.5	1.1	.5								1.7	6.7
NE		.1										1.1	1.5
ENE		1.1										1.1	4.0
E	.	.5										1.1	3.0
ESE		.	.									1.1	1.7
SE	.	1.1										1.0	3.3
SSE			.1									1.1	1.7
S		.5	2.7									4.0	6.0
SSW	.	2.2	1.1		.5							4.7	7.3
SW	.	2.2	1.1									3.0	6.3
WSW	1.1	1.1	.5									1.7	5.7
W	1.1	1.0	.5									1.2	1.5
WNW	1.1	4.7	.5									2.7	3.1
NW	1.1	2.2	2.7	.5	.5							20.4	4.0
NNW	1.7	6.5	3.3	1.1								17.6	5.4
VARBL													
CALM												1.0	
	22.0	3.7	16.1	2.7	1.1							100.0	4.4

TOTAL NUMBER OF OBSERVATIONS 173

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 10003 STATION NAME ASHEVILLE, VA CLASS ALL WEATHER YEARS 6-71, 73-75 MONTH 04 HOURS (L.S.T.) 24

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.0	0.0	1.1									5.0	0.0
NNE				1.1								1.0	10.0
NE	1.0		0.0	0.0								2.0	0.0
ENE		1.1										1.1	0.0
E													
ESE	0.0											0.0	0.0
SE	1.1	0.0										1.0	2.0
SSE	0.0	1.1										1.0	4.0
S	0.0	2.0	0.0									2.0	4.0
SSW	0.0	0.0	0.0		0.0							0.0	0.1
SW		0.0										0.0	0.0
WSW			0.1									1.1	1.0
W	0.0	1.1										0.0	0.0
WNW	0.0	0.0	1.0	1.1								10.0	0.0
NW	0.0	11.0	0.0	0.0	0.0							20.0	4.0
NNW	0.0	4.0	0.0	2.0								13.4	0.0
VARBL													
CALM													
	0.0	12.0	12.0	0.0	1.1							10.0	0.0

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0.	1.	1.		0.							0.	0.
NNE		1.										1.	0.7
NE	0.				0.							0.	1.0
ENE	0.			0.								1.	0.7
E		1.										1.	0.7
ESE													
SE	0.											1.	2.0
SSE	0.		0.									1.	0.7
S	1.	0.	1.									0.	1.1
SSW		0.	1.									0.	0.7
SW	0.	1.										1.	0.7
WSW	0.	0.										1.	0.7
W	0.	1.	1.									0.	0.7
WNW	0.	0.	1.									1.	0.7
NW	0.	0.	1.	1.								1.	0.4
NNW	0.	0.	1.	0.	0.							0.	0.7
VARBL													
CALM												0.	
	0.	0.	0.	0.	0.							0.	0.7

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 100000 STATION NAME 100000 YEARS 1971-77 MONTH 1  
CLASS 1  
CONDITION 1

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	1.0	2.0								3.0	1.0
NNE	.0	1.0										1.0	1.0
NE	.0	1.0	.0									1.0	1.0
ENE	1.0	.0										1.0	1.0
E			.0			.0						.0	1.0
ESE	.0											.0	.0
SE	.0	.0										1.0	1.0
SSE	1.0	1.0	.0									2.0	1.0
S	.0	.0	6.0									13.0	1.0
SSW	.0	2.0	.0									2.0	1.0
SW		.0	.0									2.0	1.0
WSW	.0	1.0										1.0	1.0
W	.0	.0	.0	.0								1.0	1.0
WNW	1.0	1.0	2.0	2.0	.0							6.0	1.0
NW	.0	2.0	2.0	1.0								5.0	1.0
NNW	.0	4.0	5.0	4.0	.0							13.0	1.0
VARBL													
CALM												1.0	
	.0	1.0	1.0	1.0	1.0	.0						4.0	1.0

TOTAL NUMBER OF OBSERVATIONS 10

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

73  
STATION

ASHEVILLE, VA

STATION NAME

61-71.73-77

YEARS

DEC

MONTH

ALL WEATHER  
CLASS

1  
HOURS (L.S.T.)

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.4	.	1.1	2.7								1.6	3.4
NNE	.	1.	.7									7.1	5.6
NE	.	2.7	.7									4.7	2.6
ENE	1.	1.			.4							1.7	5.3
E	.	1.										2.7	3.4
ESE	1.											1.7	1.7
SE		.	.									1.7	1.7
SSE	1.	4.	2.7									7.	5.1
S	.6	2.7	3.4	1.7								20.2	5.1
SSW	.4	2.7		.8								1.1	5.1
SW		.	1.7	.4								3.1	7.
WSW		.	1.7	.4								2.7	.
W	.	1.7	.	.4								3.1	6.5
WNW		1.	1.7	2.7								1.7	1.3
NW	1.	2.7	3.4	4.	.4							11.7	1.9
NNW		2.7	4.	3.4	.4							11.7	.7
VARBL													
CALM												.7	
	11.	13.7	24.7	15.7	1.7							10.2	.3

TOTAL NUMBER OF OBSERVATIONS

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, VA STATION NAME ALL WEATHER YEARS 61-71, 73-77 DIRECTION NORTH

CLASS 10

CONDITION 10

HOURS (L.S.T.) 10

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	2.0	.5								7.1	4.5
NNE	.5	1.0										1.0	4.5
NE	2.0	2.0	1.0	1.0								7.1	4.4
ENE	1.0	1.0	.5									7.1	4.4
E	.5											.5	4.4
ESE	.5											.5	2.0
SE	1.0	1.0	.5	.5								2.0	5.0
SSE	1.0	.5	1.0	.5								3.0	5.1
S	2.0	1.0	2.0	.5								17.1	4.0
SSW	.5	1.0	1.0	.5								4.0	5.7
SW	.5	.5	.5									1.0	6.1
WSW	.5	2.0										2.0	4.6
W	1.0	1.0	1.0	.5								5.0	5.7
WNW	.5	2.0	2.0	.5								7.1	.5
NW	.5	.5	2.0	3.0	.5							10.0	.5
NNW	.5	2.0	2.0	1.0								7.1	.5
VARBL													
CALM												17.1	
	20.0	34.3	21.0	9.5	.5							100.0	5.4

TOTAL NUMBER OF OBSERVATIONS 10

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION ASHEVILLE, VA STATION NAME ASHEVILLE, VA YEARS 61-71, 73-77 DATE 10  
MONTH 1  
HOURS (L.S.T.) 1  
CLASS ALL WEATHER  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	0.0	2.1	1.0								4.9	1.4
NNE		0.0	0.0	0.0								2.1	1.6
NE	0.0		0.0									1.0	1.0
ENE	1.0	0.0										2.1	3.0
E	1.0	1.0	0.0									2.1	4.0
ESE	0.0	0.0										1.0	2.0
SE		0.0										1.0	3.0
SSE	0.0	0.0	0.0									2.1	5.0
S	0.0	0.0	2.1	0.0								2.9	6.3
SSW	0.0	2.1	1.0									2.9	4.6
SW	0.0	0.0	0.0									1.0	4.0
WSW		0.0										0.0	0.0
W	0.0	2.1										4.0	2.1
WNW	0.0		0.0	0.0								6.0	1.0
NW	1.0	0.0	0.0	1.0	1.0							14.1	7.0
NNW	0.1	2.0	2.1	2.6	0.0							6.8	7.8
VARBL												20.0	
CALM													
	21.4	24.0	16.7	6.2	1.6							100.0	4.5

TOTAL NUMBER OF OBSERVATIONS 100

SMOS



NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION NO. 61-71,73-75 STATION NAME ALL WEATHER YEARS 1971-1975 MONTH 12  
CLASS ALL WEATHER HOURS (L.S.T.) 12  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.1	2.2	2.2	.5								5.0	6.4
NNE	1.1	1.1			.5							2.0	6.4
NE	.5	1.1	.5	.5								2.0	6.3
NNE			.5									.5	7.0
E	.5	.5	1.1									1.2	5.0
ESE	.5	.5										1.1	4.5
SE	1.1	1.1										2.2	4.2
SSE		1.1										1.1	5.0
S	1.1	2.2										4.0	3.9
SSW	.5	.5	.5									4.0	5.2
SW		.5	1.1	.5								2.2	5.2
WSW	.5	.5		.5								1.1	6.7
W	1.1	1.1										2.2	2.7
WNW	1.1	1.1	1.1									3.0	4.1
NW	.5	2.2	2.2	3.0								22.0	5.4
NNW	.5	2.2	2.2	1.6								10.0	6.0
VARB													
CALM												2.0	
	2.0	28.5	16.7	7.0	.5							110.0	4.4

TOTAL NUMBER OF OBSERVATIONS 14

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 STATION NAME ASHEVILLE, VA YEARS 60-71, 73-77 MONTH DEC

CLASS ALL WEATHER

CONDITION ALL

HOURE (L.S.T.)

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	2.0	2.0	.1	.1							1.0	6.9
NNE	.	1.0	.1	.1	.1							2.0	6.2
NE	.	1.0	.1	.1	.1							1.0	5.6
ENE	1.0	.	.1	.1	.1							1.0	4.7
E	.	.1	.1			.						1.0	6.7
ESE	.	.1	.1									.1	7.3
SE	.	.1	.1	.1								1.0	4.3
SSE	1.0	1.0	.1	.1								1.0	5.0
S	.	6.0	2.3	.3								10.0	5.1
SSW	.	2.0	1.0	.1	.1							1.0	6.1
SW	.	1.0	.1	.1								1.0	4.4
WSW	.1	1.0	.1	.1								1.0	5.7
W	1.0	1.0	.1	.1								3.0	4.6
WNW	1.0	2.3	1.0	.1	.1							1.0	5.5
NW	4.4	6.2	2.0	2.0	.4							15.0	6.2
NNW	.3	4.0	3.0	2.0	.3							1.0	7.5
VARBL													
CALM												1.0	
	12.1	32.0	17.9	8.0	1.2	.1						100.0	4.9

TOTAL NUMBER OF OBSERVATIONS 1 21

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 SMITHCO, VA STATION NAME SMITHCO, VA YEARS 67-71, 73-78 ALL NORTH  
ALL WEATHER CLASS ALL HOURS (L.S.T.)  
CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.7	2.3	1.7	.6	.7	.7						5.5	6.2
NNE	.7	1.1	.	.1	.7							2.7	6.2
NE	.7	1.4	1.7	.2	.7							3.2	6.2
ENE	.4	1.4	.	.1	.7							2.7	5.5
E	.7	1.7	.7	.7		.7						2.7	4.5
ESE	.7	.7	.7	.7	.7							2.2	4.5
SE	1.7	2.7	.7	.7								3.7	4.9
SSE	1.7	2.1	1.2	.1	.7							5.7	5.1
S	.	6.1	3.1	.5		.						12.7	5.4
SSW	1.1	2.4	1.4	.2	.7							5.1	5.6
SW	.	.	.7	.1	.7							2.2	5.7
WSW	.7	.7	.7	.1	.7	.7						1.1	5.3
W	1.7	1.7	.8	.2	.7							4.5	5.7
WNW	2.7	3.7	1.4	.7	.1	.						1.1	5.3
NW	.1	1.1	2.3	1.7	.1	.7						12.7	5.5
NNW	1.7	3.5	2.7	1.2	.1	.						1.7	6.7
VARBL													
CALM												14.7	
	21.7	37.7	20.3	5.2	.4	.7						110.7	4.7

TOTAL NUMBER OF OBSERVATIONS 211

SMOS

NAVAL WEATHER SERVICE  
DETACHMENT  
ASHEVILLE, NC

PERCENTAGE FREQUENCY OF WIND  
DIRECTION AND SPEED  
(FROM HOURLY OBSERVATIONS)

SURFACE WINDS

STATION 73 STATION NAME OCEANOGRAPHY, VA YEARS 71, 73-74 MONTH ALL  
INSTRUMENT CLASS ALL  
CONDITION HOURS (L.S.T.) ALL  
OBS TO 1470 FT H/VISBY 1/2 MI 0 MCE  
A 1/2 OR V 1/2 TO 2-1/2 MI 1/016 200 FT OR MCE

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.0	1.0	.0							1.0	6.0
NNE	.0	2.0	2.1	.5	.1							1.3	1.7
NE	.0	2.0	2.0	.6	.5							1.1	1.7
ENE	.1	2.0	1.7	.3	.0							5.7	6.0
E	1.0	2.1	.0	.1		.0						4.6	5.1
ESE	.0	1.1	.0	.1								2.4	4.0
SE	.1	1.0	.0	.0								3.0	5.1
SSE	1.0	2.0	1.1	.1								5.0	5.3
S	.0	4.4	2.1	.0								9.7	1.3
SSW	1.0	1.0	.0	.1								1.4	5.0
SW	.0	.0	.0	.0								.0	.0
WSW	.0	.0	.3	.0								1.0	4.4
W	1.0	.7	.0									2.0	3.0
WNW	1.0	1.0	.0	.0	.1							4.5	5.5
NW	.0	2.4	1.1	.6	.0							6.8	4.0
NNW	1.0	2.0	2.0	1.2	.2							4.0	1.5
VABL													
CALM												15.0	
	21.0	3.0	20.3	5.0	.0	.0						100.0	4.0

TOTAL NUMBER OF OBSERVATIONS 2430

SMOS

NOCD, Federal Building  
Asheville, N. C.

## PART D CEILING VERSUS VISIBILITY

This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - all years and all hours combined
2. By Month - all years and all hours combined
3. By Month - by standard 3-hour groups

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minima may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

Beginning in July 1948 for Air Force stations and January 1949 for NWS and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	$\geq 10$	$\geq 6$	$\geq 5$	$\geq 4$	$\geq 3$	$\geq 2\frac{1}{2}$	$\geq 2$	$\geq 1\frac{1}{2}$	$\geq 1\frac{1}{4}$	$\geq 1$	$\geq \frac{3}{4}$	$\geq \frac{1}{2}$	$\geq \frac{5}{16}$	$\geq \frac{1}{4}$	$\geq 0$
NO CEILING															
1800															
1500					91.0										92.6
1200															
1000															
900															
800															
700															
600															
500										97.4					98.1
400															
300															
200															
100															
0					95.4		96.9			98.3					100.0

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed  $\geq 0$ .  
For instance, from the table: Ceiling  $\geq 1500$  feet = 92.6%.  
Ceiling  $\geq 500$  feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite  $\geq 0$ . From the table:  
Visibility  $\geq 3$  miles = 95.4%.  
Visibility  $\geq 2$  miles = 96.9%.  
Visibility  $\geq 1$  mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling  $\geq 1500$  feet with visibility  $\geq 3$  miles = 91.0%.

## PART D

### ADDITIONAL EXAMPLES

**EXAMPLE # 4** Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.  
Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

**EXAMPLE # 5** To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but < 3 miles; or ceiling  $\geq 500$  feet, but < 1500 feet with visibility  $\geq 1$  mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

## PART D

## SKY COVER

This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

1. By month and annual - all hours and all years combined.
2. By month - by standard 3-hour groups.

NOTE: #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: #2: Some sources of punched data used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

NOTE: #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

Clear converted to 0/10  
Scattered converted to 3/10  
Broken converted to 9/10  
Overcast converted to 10/10  
Obscured converted to 10/10



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 20000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 18000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 16000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 14000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 12000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 10000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 9000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 8000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 7000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 6000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 5000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 4500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 4000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 3500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 3000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 2500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 2000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1800	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 900	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 800	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 700	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 600	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 400	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
≥ 20000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 18000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 16000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 14000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 12000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 10000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 9000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 8000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 7000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 6000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 4500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 4000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 3500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 3000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 2500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 2000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 1800	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 1500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 1200	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 1000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 900	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 800	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 700	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 600	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 400	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 300	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 200	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 100	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
IV 0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 20000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 18000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 16000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 14000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 12000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 10000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 9000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 8000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 7000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 6000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 5000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 4500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 4000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 3500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 3000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 2500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 2000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1800	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 900	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 800	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 700	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 600	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 400	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 20000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 18000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 16000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 14000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 12000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 10000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 9000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 8000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 7000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 6000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 5000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 4500	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 4000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 3500	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 3000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 2500	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 2000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1800	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1500	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1200	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1000	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 900	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 800	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 700	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 600	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 500	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 400	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 300	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 200	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 100	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION 000000 STATION NAME -70 YEARS MONTH 1 HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.4	2.5	3.6	4.7	5.8	6.9	8.0	9.1	10.2	11.3	12.4	13.5	14.6	15.7	16.8	17.9
IV 20000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 18000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 16000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 14000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 12000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 10000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 9000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 8000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 7000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 6000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 5000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 4500	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 4000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 3500	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 3000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 2500	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 2000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 1800	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 1500	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 1200	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 1000	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 900	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 800	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 700	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 600	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 500	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 400	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 300	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 200	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 100	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7
IV 0	1.2	2.3	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7
≥ 20000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 18000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 16000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 14000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 12000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 10000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 9000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 8000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 7000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 6000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 5000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 4500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 4000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 3500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 3000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 2500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 2000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 1800	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 1500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 1200	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 1000	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 900	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 800	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 700	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 600	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 500	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 400	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 300	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 200	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 100	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
IV 0	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
≥ 20000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 18000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 16000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 14000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 12000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 10000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 9000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 8000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 7000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 6000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 5000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 4500	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 4000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 3500	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 3000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 2500	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 2000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 1800	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 1500	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 1200	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 1000	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 900	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 800	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 700	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 600	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 500	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 400	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 300	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 200	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 100	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1
IV 0	11.1	13.0	54.2	14.2	54.2	14.1	54.0	14.6	14.6	54.3	15.1	55.3	15.7	15.3	55.7	15.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

DATE

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
≥ 20000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 18000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 16000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 14000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 12000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 10000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 9000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 8000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 7000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 6000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 5000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 4500	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 4000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 3500	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 3000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 2500	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 2000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 1800	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 1500	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 1200	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 1000	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 900	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 800	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 700	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 600	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 500	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 400	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 300	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 200	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 100	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1
IV 0	1.1	1.1	5.1	10.1	15.1	20.1	25.1	30.1	35.1	40.1	45.1	50.1	55.1	60.1	65.1	70.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	11.0	43.0	44.0	41.4	44.0	46.1	45.2	44.4	46.4	46.4	46.4	46.4	46.4	46.4	46.4
≥ 20000	11.0	50.2	51.4	42.0	52.7	52.2	53.0	53.1	53.1	53.2	53.2	53.2	53.2	53.2	53.2
IV 18000	11.0	44.4	51.6	42.1	52.7	52.4	53.1	53.2	53.2	53.2	53.3	53.3	53.3	53.3	53.4
IV 16000	11.0	44.4	51.7	42.2	52.9	53.0	53.7	53.3	53.3	53.4	53.4	53.4	53.4	53.4	53.4
IV 14000	11.0	44.4	52.0	42.4	53.1	53.2	53.4	53.6	53.6	53.6	53.7	53.7	53.7	53.7	53.7
IV 12000	11.0	52.3	57.4	44.4	55.0	55.1	55.4	55.5	55.5	55.6	55.6	55.6	55.6	55.6	55.7
IV 10000	11.0	57.0	55.2	55.3	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
IV 9000	14.6	71.2	59.5	60.1	67.5	67.5	67.5	61.2	61.4	61.4	61.4	61.5	61.5	61.5	61.5
IV 8000	11.0	52.2	44.4	44.3	67.5	65.4	65.6	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9
IV 7000	11.0	53.7	65.4	55.0	67.0	67.1	67.3	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.7
IV 6000	11.0	64.4	65.1	67.0	67.8	67.9	68.1	68.3	68.3	68.4	68.4	68.4	68.4	68.5	68.5
IV 5000	11.0	67.4	69.4	71.3	71.4	71.5	71.8	72.0	72.0	72.0	72.1	72.1	72.1	72.1	72.2
IV 4500	11.0	68.4	71.5	71.4	73.4	72.7	72.9	73.2	73.2	73.3	73.3	73.3	73.3	73.4	73.7
IV 4000	11.0	71.4	73.7	74.9	76.0	76.2	76.4	76.7	76.7	76.8	76.8	76.8	76.8	76.9	77.0
IV 3500	11.0	73.1	75.7	76.5	78.5	78.3	78.6	78.8	78.8	78.9	79.0	79.0	79.0	79.1	79.2
IV 3000	11.0	71.6	79.5	79.7	81.2	81.4	81.7	82.1	82.1	82.1	82.2	82.2	82.2	82.3	82.4
IV 2500	11.0	76.4	80.5	80.8	82.5	82.5	83.0	83.3	83.3	83.4	83.5	83.5	83.5	83.6	83.7
IV 2000	11.0	77.4	80.7	82.1	83.9	84.2	84.7	85.1	85.1	85.2	85.3	85.3	85.3	85.4	85.5
IV 1800	11.0	77.4	82.3	82.3	84.5	84.4	84.9	85.3	85.3	85.5	85.5	85.6	85.6	85.7	85.8
IV 1500	11.0	74.1	81.0	81.5	85.7	86.2	86.8	87.3	87.3	87.4	87.4	87.5	87.5	87.5	87.6
IV 1200	11.0	78.1	85.5	84.2	86.3	86.9	87.5	88.0	88.0	88.1	88.3	88.4	88.4	88.5	88.6
IV 1000	11.0	78.9	87.0	86.7	87.4	88.2	89.0	89.7	89.7	89.7	89.9	90.2	90.3	90.6	90.7
IV 900	11.0	79.1	83.2	85.3	87.5	88.7	89.6	90.2	90.2	90.5	90.7	90.9	91.2	91.3	91.4
IV 800	11.0	79.7	87.4	86.6	88.5	89.3	90.4	91.2	91.2	91.4	91.7	91.8	92.1	92.2	92.3
IV 700	11.0	75.6	87.6	85.9	89.7	89.9	91.1	92.1	92.1	92.4	92.7	92.8	93.1	93.3	93.4
IV 600	11.0	79.6	87.6	86.2	89.3	90.2	91.4	92.4	92.4	92.4	92.4	93.3	93.3	93.6	94.0
IV 500	11.0	79.7	87.6	86.4	89.5	90.6	92.0	93.3	93.3	93.7	94.0	94.4	94.5	95.1	95.1
IV 400	11.0	79.7	87.9	86.4	89.7	90.7	92.2	93.7	93.8	94.5	95.0	95.2	95.7	96.1	96.4
IV 300	11.0	79.7	87.6	86.4	89.5	90.8	92.4	94.0	94.1	95.0	95.7	95.9	96.4	96.7	97.2
IV 200	11.0	79.7	87.9	86.4	89.9	90.9	92.6	94.3	94.3	95.3	96.2	96.6	97.1	97.8	98.3
IV 100	11.0	79.7	87.6	86.4	89.9	90.9	92.6	94.3	94.3	95.4	96.3	96.7	97.2	97.8	98.4
IV 0	11.0	79.7	83.0	86.4	89.7	90.9	92.6	94.3	94.3	95.4	96.4	96.7	97.3	98.0	98.7

TOTAL NUMBER OF OBSERVATIONS

717

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L &amp; T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.2	47.4	40.1	35.2	31.5	28.4	25.4	22.4	20.4	18.4	16.4	14.4	12.4	10.4	8.4	6.4
≥ 20000	1.2	55.4	57.1	55.2	53.4	52.4	51.4	50.4	49.4	48.4	47.4	46.4	45.4	44.4	43.4	42.4
IV 18000	1.2	55.4	57.1	55.2	53.4	52.4	51.4	50.4	49.4	48.4	47.4	46.4	45.4	44.4	43.4	42.4
IV 16000	1.2	55.4	57.1	55.2	53.4	52.4	51.4	50.4	49.4	48.4	47.4	46.4	45.4	44.4	43.4	42.4
IV 14000	11.1	57.2	57.5	56.4	54.9	53.4	51.9	50.4	48.9	47.4	45.9	44.4	42.9	41.4	39.9	38.4
IV 12000	11.1	57.2	57.5	56.4	54.9	53.4	51.9	50.4	48.9	47.4	45.9	44.4	42.9	41.4	39.9	38.4
IV 10000	11.1	64.2	67.2	66.8	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 9000	11.1	64.2	67.2	66.8	67.2	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 8000	12.2	67.7	70.8	70.8	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 7000	12.2	67.7	70.8	70.8	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 6000	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 5000	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 4500	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 4000	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 3500	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 3000	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 2500	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 2000	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 1800	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 1500	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 1200	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 1000	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 900	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 800	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 700	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 600	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 500	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 400	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 300	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 200	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 100	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 0	12.2	74.3	74.3	73.5	72.9	73.4	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3	74.3

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	4.4	46.1	47.7	48.4	51.6	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
≥ 20000	1.7	5.5	5.4	59.3	59.7	60.3	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 18000	1.4	54.3	55.9	59.7	60.2	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
IV 16000	1.9	54.3	54.9	59.7	60.2	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6	60.6
IV 14000	1.4	54.6	55.8	60.2	60.6	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
IV 12000	1.3	57.1	57.7	60.6	61.1	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
IV 10000	10.2	62.1	62.6	66.4	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 9000	10.2	62.4	62.8	66.4	66.8	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
IV 8000	11.5	66.4	67.0	69.9	70.4	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
IV 7000	11.5	67.1	67.5	71.2	72.1	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
IV 6000	11.1	67.5	67.8	73.8	74.4	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
IV 5000	11.1	67.8	67.8	74.3	75.2	76.1	77.1	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
IV 4500	11.1	67.8	67.8	75.8	76.1	77.9	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 4000	11.1	67.8	67.8	76.6	77.4	78.7	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
IV 3500	11.1	67.8	67.8	77.4	78.8	81.1	81.4	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 3000	11.1	67.8	67.8	78.6	80.1	82.3	82.7	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 2500	11.1	67.8	67.8	79.7	81.0	83.8	84.1	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
IV 2000	11.1	67.8	67.8	80.5	82.3	85.0	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IV 1800	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 1500	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 1200	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 1000	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 900	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 800	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 700	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 600	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 500	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 400	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 300	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 200	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 100	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 0	11.1	67.8	67.8	81.5	83.3	86.0	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.1	41.3	44.6	46.5	47.3	49.3	49.3	44.3	47.3	46.7	45.3	43.2	40.7	45.3	40.3	4.1
IV 20000	1.1	41.3	51.3	52.4	51.7	53.3	57.3	53.3	57.3	53.3	53.3	53.3	57.3	53.3	53.3	57.3
IV 18000	1.1	41.3	51.3	52.4	51.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 16000	1.1	41.3	51.3	52.4	51.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3	53.3
IV 14000	1.4	51.3	53.3	54.2	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
IV 12000	1.1	53.7	55.7	56.3	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 10000	2.3	54.5	57.7	58.5	59.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 9000	2.3	54.5	60.7	60.5	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 8000	21.5	64.5	66.4	64.3	69.0	69.0	69.4	69.9	67.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
IV 7000	24.1	64.5	66.4	64.6	69.4	69.4	69.4	70.3	70.3	71.3	71.3	70.3	71.7	71.7	71.7	71.7
IV 6000	24.1	65.5	67.7	69.4	70.3	70.3	70.7	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
IV 5000	21.3	69.1	7.3	72.1	72.9	72.9	73.4	73.8	73.8	73.8	73.8	73.8	74.2	74.2	74.2	74.2
IV 4500	21.3	69.4	7.7	72.5	73.4	73.4	73.9	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
IV 4000	25.3	69.4	7.1	73.2	76.1	76.1	76.4	76.9	76.9	76.9	76.9	76.9	77.3	77.3	77.3	77.3
IV 3500	25.3	71.6	73.9	75.6	77.7	77.7	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 3000	25.3	73.4	77.6	77.3	79.8	79.8	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 2500	25.3	74.2	74.8	79.0	81.2	81.7	82.5	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
IV 2000	25.3	74.7	77.7	81.4	82.5	83.0	83.9	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 1800	25.3	74.7	77.7	80.4	82.5	83.0	83.8	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
IV 1500	25.3	75.1	78.2	81.2	83.4	84.3	85.2	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
IV 1200	25.3	75.6	78.5	81.7	83.8	84.7	85.6	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 1000	25.3	76.7	79.7	82.1	84.3	85.2	86.9	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
IV 900	25.3	76.7	79.7	82.1	84.3	85.2	86.9	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
IV 800	25.3	76.9	80.4	83.4	85.6	86.5	88.2	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 700	25.3	76.9	80.4	83.4	85.6	86.5	88.2	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 600	25.3	76.9	80.4	83.4	85.6	86.5	88.2	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 500	25.3	76.9	80.4	83.4	85.6	86.5	88.2	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 400	25.3	76.9	80.4	83.4	85.6	86.5	88.2	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 300	25.3	77.3	81.4	83.8	85.5	87.8	89.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IV 200	25.3	77.3	81.4	83.8	85.5	87.8	89.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IV 100	25.3	77.3	81.4	83.8	85.5	87.8	89.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IV 0	25.3	77.3	81.4	83.8	85.5	87.8	89.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	42.7	43.8	47.8	42.2	47.1	7.0	47.3	47.0	47.7	47.0	47.0	47.7	47.7	47.7	47.7
≥ 20000	42.7	42.3	57.5	44.6	55.3	5.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
18000	42.7	52.7	57.5	54.6	55.3	5.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
16000	42.7	52.7	57.5	54.6	55.3	5.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
14000	42.7	53.9	57.5	55.7	55.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
12000	42.7	53.9	57.5	55.7	55.9	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
10000	42.7	51.1	67.0	55.7	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
9000	42.7	51.1	67.0	55.7	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
8000	42.7	54.1	67.0	57.2	67.0	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
7000	42.7	56.7	67.0	55.5	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
6000	42.7	56.4	57.5	70.2	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
5000	34.5	67.0	71.4	71.4	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
4500	34.5	67.0	71.4	71.4	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
4000	34.5	71.4	72.9	74.1	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
3500	34.5	72.9	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
3000	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
2500	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
2000	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
1800	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
1500	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
1200	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
1000	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
900	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
800	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
700	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
600	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
500	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
400	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
300	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
200	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
100	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
0	34.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

1974

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	100.0	97.0	94.4	91.4	87.7	83.7	79.1	74.1	69.1	64.1	59.1	54.1	49.1	44.1	39.1	34.1
≥ 20000	72.0	75.7	74.0	70.0	67.0	63.0	59.0	54.0	49.0	44.0	39.0	34.0	29.0	24.0	19.0	14.0
IV 18000	2.0	15.7	14.0	10.0	7.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 16000	2.0	15.7	14.0	10.0	7.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 14000	1.0	14.1	12.0	8.2	5.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 12000	1.0	14.1	12.0	8.2	5.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IV 10000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 9000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 8000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 7000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 6000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 5000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 4500	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 4000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 3500	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 3000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 2500	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 2000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 1800	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 1500	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 1200	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 1000	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 900	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 800	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 700	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 600	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 500	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 400	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 300	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 200	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 100	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
IV 0	0.0	61.0	50.0	40.0	33.0	23.0	13.0	8.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
≥ 20000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 18000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 16000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 14000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 12000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 10000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 9000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 8000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 7000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 6000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 5000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 4500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 4000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 3500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 3000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 2500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 2000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 1800	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 1500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 1200	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 1000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 900	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 800	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 700	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 600	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 500	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 400	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 300	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 200	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 100	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
IV 0	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 18000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 16000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 14000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 12000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 10000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 9000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 8000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 7000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 6000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 5000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 4500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 4000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 3500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 3000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 2500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 2000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1800	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 1000	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 900	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 800	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 700	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 600	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 500	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 400	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 100	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
IV 0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



AD A150 445

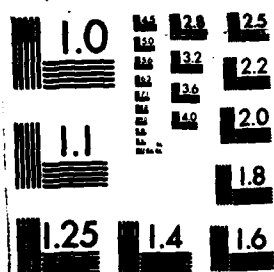
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
QUANTICO VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

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MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

02

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
≥ 20000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 18000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 16000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 14000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 12000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 10000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 9000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 8000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 7000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 6000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 5000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 4500	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 4000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 3500	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 3000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 2500	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 2000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 1800	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 1500	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 1200	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 1000	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 900	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 800	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 700	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 600	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 500	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 400	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 300	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 200	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 100	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
IV 0	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4

TOTAL NUMBER OF OBSERVATIONS

226

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

1973  
STATION

PLANTICO, VA  
STATION NAME

59-76  
YEAR

FEB  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	19.7	46.1	47.9	44.5	48.9	49.3	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0	49.0
≥ 20000	1.1	54.2	55.6	51.2	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
≥ 18000	1.1	54.3	55.7	56.3	54.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 16000	1.1	54.3	55.7	56.3	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
≥ 14000	21.4	54.7	54.2	56.8	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
≥ 12000	1.1	56.4	54.3	59.0	59.3	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 10000	23.1	61.7	63.3	64.0	64.4	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
≥ 9000	23.1	61.6	63.4	64.1	64.5	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
≥ 8000	24.2	65.8	67.4	68.2	68.6	68.6	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
≥ 7000	24.4	66.6	68.4	69.3	69.7	69.7	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
≥ 6000	24.7	67.7	69.4	70.3	70.7	70.8	70.9	71.0	71.0	71.1	71.1	71.1	71.1	71.1	71.1
≥ 5000	25.5	69.9	71.9	72.9	73.4	73.5	73.7	73.7	73.7	73.8	73.8	73.8	73.9	73.9	73.9
≥ 4500	25.7	70.6	72.6	73.7	74.1	74.4	74.6	74.6	74.6	74.7	74.7	74.7	74.8	74.8	74.8
≥ 4000	26.1	72.3	74.6	75.6	76.4	76.5	76.7	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9
≥ 3500	26.3	73.5	75.9	77.0	77.9	78.0	78.2	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4
≥ 3000	27.2	76.3	79.1	80.3	81.4	81.5	81.6	81.9	81.9	82.0	82.1	82.1	82.2	82.2	82.2
≥ 2500	27.2	77.3	80.2	81.5	82.6	82.9	83.3	83.5	83.5	83.6	83.6	83.6	83.7	83.7	83.7
≥ 2000	27.2	77.6	80.8	82.5	83.9	84.1	84.7	84.9	84.9	85.0	85.1	85.1	85.2	85.2	85.2
≥ 1800	27.2	77.6	80.9	82.5	83.9	84.2	84.8	85.0	85.0	85.1	85.1	85.1	85.3	85.3	85.3
≥ 1500	27.3	78.4	82.0	83.7	85.2	85.7	86.3	86.7	86.7	86.8	86.9	87.0	87.2	87.2	87.2
≥ 1200	27.3	78.7	82.4	84.1	85.4	86.3	87.1	87.5	87.5	87.6	87.8	87.8	88.0	88.0	88.1
≥ 1000	27.3	79.4	83.0	85.1	87.1	88.0	89.0	89.5	89.5	89.7	89.8	90.0	90.2	90.2	90.3
≥ 900	27.3	79.5	83.3	85.4	87.4	88.3	89.4	90.0	90.0	90.2	90.4	90.5	90.7	90.7	90.8
≥ 800	27.3	79.8	83.8	86.1	88.5	89.5	90.9	91.5	91.6	91.9	92.2	92.3	92.5	92.6	92.7
≥ 700	27.3	79.9	84.1	86.5	89.0	90.2	91.8	92.9	92.9	93.1	93.5	93.6	93.8	93.9	94.1
≥ 600	27.3	79.9	84.2	86.7	89.3	90.5	92.4	93.2	93.2	94.0	94.4	94.6	94.9	95.0	95.1
≥ 500	27.3	80.0	84.4	86.9	89.5	90.7	92.7	93.8	93.9	94.9	95.5	95.7	96.0	96.2	96.3
≥ 400	27.3	80.0	84.4	86.9	89.5	90.8	92.8	94.1	94.1	95.4	96.0	96.3	96.7	96.9	97.0
≥ 300	27.3	80.0	84.5	87.0	89.8	91.2	93.3	94.6	94.7	96.0	96.8	97.1	97.7	98.1	98.3
≥ 200	27.3	80.0	84.5	87.0	89.8	91.2	93.3	94.8	94.8	96.3	97.2	97.6	98.2	98.6	99.0
≥ 100	27.3	80.0	84.5	87.0	89.8	91.2	93.3	94.8	94.8	96.3	97.2	97.6	98.2	98.7	99.1
≥ 0	27.3	80.0	84.5	87.0	89.8	91.2	93.3	94.8	94.8	96.3	97.2	97.6	98.2	98.7	99.2

TOTAL NUMBER OF OBSERVATIONS 1010

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
1973

STATION NAME  
ONANTIC, VA

STATION DATE

57-76

YEAR

MAP

MONTH

01

HOURS (L & T)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 3/16	≥ 0
NO CEILING	11.6	45.4	47.8	48.8	49.7	49.6	49.6	48.6	49.6	49.6	49.6	48.6	49.6	49.6	49.6
≥ 20000	11.7	54.2	55.7	55.7	56.1	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
NV 18000	11.7	55.3	56.1	56.1	56.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
NV 16000	11.7	55.3	56.1	56.1	56.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
NV 14000	12.2	56.1	56.9	56.9	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
NV 12000	12.2	57.7	58.5	58.5	58.9	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
NV 10000	12.2	63.8	64.6	64.6	65.0	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
NV 9000	13.0	64.6	65.5	65.5	65.9	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3	66.3
NV 8000	13.0	66.7	67.5	67.5	67.9	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
NV 7000	13.4	68.3	69.1	69.1	69.5	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9
NV 6000	13.4	69.1	69.9	69.9	70.3	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
NV 5000	14.2	73.2	74.0	74.0	74.8	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
NV 4500	14.2	74.8	75.6	75.6	76.0	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
NV 4000	14.2	76.8	77.9	77.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
NV 3500	14.2	76.8	78.9	79.3	80.5	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
NV 3000	14.6	75.5	80.5	80.9	82.1	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
NV 2500	14.6	75.9	80.9	81.3	82.5	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
NV 2000	15.0	79.3	81.7	82.1	83.7	84.6	85.0	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
NV 1800	15.0	79.7	82.1	82.5	84.6	85.4	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
NV 1600	15.0	80.1	82.5	82.9	85.8	86.6	87.0	87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8
NV 1400	15.0	80.1	82.5	82.9	86.6	87.4	87.8	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
NV 1200	15.0	80.5	83.3	84.2	87.8	88.6	89.0	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
NV 1000	15.0	80.5	83.7	84.6	88.2	89.0	90.7	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
NV 900	15.0	80.5	83.7	84.6	89.0	89.8	91.9	92.7	92.7	93.1	93.1	93.1	93.1	93.1	93.1
NV 800	15.0	80.5	84.6	85.4	89.8	90.7	92.7	93.3	93.3	93.9	93.9	93.9	93.9	93.9	93.9
NV 700	15.0	80.5	84.6	85.4	89.8	90.7	92.7	93.3	93.3	94.3	94.3	94.3	94.3	94.3	94.3
NV 600	15.0	80.5	84.6	85.4	89.8	90.7	92.7	93.3	93.3	94.3	94.3	94.3	94.3	94.3	94.3
NV 500	15.0	80.9	85.0	85.8	90.7	91.5	93.5	94.7	95.1	95.5	95.5	95.5	95.5	95.5	95.5
NV 400	15.0	80.9	85.0	85.8	90.7	91.5	93.5	94.7	95.1	95.5	95.5	95.5	95.5	95.5	95.5
NV 300	15.0	80.9	85.0	85.8	91.1	91.9	94.7	95.9	96.3	96.8	97.6	97.6	97.6	97.6	97.6
NV 200	15.0	81.3	85.4	86.2	91.5	92.3	95.1	96.3	96.8	97.2	98.0	98.0	98.0	98.0	98.0
NV 100	15.0	81.3	85.4	86.2	91.5	92.3	95.5	97.2	97.6	98.0	98.8	98.8	98.8	98.8	98.8
NV 0	15.0	81.3	85.4	86.2	91.5	92.3	95.5	97.2	97.6	98.0	98.8	98.8	98.8	98.8	98.8

TOTAL NUMBER OF OBSERVATIONS 246

DIRNAVOCEANMET SMOS

4.

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

1973  
STATION

QUANTICO, VA

STATION NAME

69-76

YEARS

MAP

EIGHTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

34

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	46.7	46.8	46.8	46.8	49.2	49.2	49.2	49.2	49.2	49.6	49.6	49.6	49.6	49.6	49.6	49.6
≥ 20000	50.4	50.4	55.7	56.8	56.9	56.9	57.3	57.3	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7
≥ 18000	54.8	54.8	54.1	56.9	57.3	57.3	57.7	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 16000	54.8	54.8	54.1	56.9	57.3	57.3	57.7	57.7	57.7	58.1	58.1	58.1	58.1	58.1	58.1	58.1
≥ 14000	55.2	56.3	57.3	57.7	57.7	58.1	58.1	58.1	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
≥ 12000	56.7	56.9	57.7	58.1	58.1	58.5	58.5	58.5	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
≥ 10000	59.7	61.7	62.5	62.9	62.9	63.3	63.3	63.3	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
≥ 9000	59.7	62.1	62.9	63.3	63.3	63.7	63.7	63.7	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
≥ 8000	64.9	66.9	67.7	68.2	68.2	68.6	68.6	68.6	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
≥ 7000	65.7	67.7	69.0	69.4	69.4	69.8	69.8	69.8	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
≥ 6000	66.5	68.6	69.8	70.2	70.2	70.6	70.6	70.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
≥ 5000	69.8	72.2	73.4	74.2	74.2	74.6	74.6	74.6	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
≥ 4500	72.6	74.6	75.8	76.2	77.0	77.0	77.4	77.4	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
≥ 4000	74.6	77.4	79.8	80.7	80.7	81.1	81.1	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 3500	75.0	77.8	80.2	81.1	81.1	81.5	81.5	81.5	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 3000	76.2	79.0	81.5	82.3	82.3	82.7	82.7	82.7	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
≥ 2500	76.6	79.4	83.1	83.9	83.9	84.3	84.3	84.3	84.7	84.7	84.7	84.7	84.7	84.7	84.7	84.7
≥ 2000	77.0	80.2	83.9	85.1	85.1	85.9	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1800	77.0	80.2	83.9	85.1	85.1	85.9	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1500	77.0	80.2	83.9	85.1	85.1	85.9	85.9	85.9	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
≥ 1200	77.4	80.7	84.3	85.5	85.5	86.3	86.3	86.3	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
≥ 1000	77.8	81.1	85.9	87.5	87.5	88.3	88.3	88.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
≥ 900	77.8	81.1	85.9	87.5	87.5	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
≥ 800	78.2	81.5	86.3	89.1	89.1	90.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 700	78.2	81.5	86.3	89.1	89.1	90.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 600	78.2	81.5	86.3	89.1	89.1	90.7	90.7	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 500	78.6	82.3	87.1	90.3	90.3	92.7	92.7	93.6	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.0
≥ 400	78.6	82.3	87.1	91.1	91.1	91.9	91.9	92.3	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 300	78.6	82.3	87.1	91.1	91.1	91.9	91.9	92.3	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 200	78.6	82.3	87.1	91.1	91.1	91.9	91.9	92.3	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 100	78.6	82.3	87.1	91.1	91.1	91.9	91.9	92.3	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7
≥ 0	78.6	82.3	87.1	91.1	91.1	91.9	91.9	92.3	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7

TOTAL NUMBER OF OBSERVATIONS

245

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

1973  
STATION

QUANTICO, VA

STATION NAME

68-78

YEARS

AUG

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)15  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¾	≥ 0
NO CEILING	6.2	33.0	41.0	47.7	55.1	56.9	56.7	57.2	57.3	57.5	57.5	57.5	57.5	57.5	57.5	57.5
≥ 20000	7.0	38.4	46.9	56.2	61.6	63.7	63.7	64.0	64.0	64.4	64.4	64.4	64.4	64.4	64.4	64.4
IV 18000	7.0	38.7	47.3	56.5	62.0	64.0	64.0	64.4	64.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 16000	7.0	38.7	47.3	56.5	62.0	64.0	64.0	64.4	64.4	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 14000	7.0	39.0	47.6	56.9	62.3	64.4	64.4	64.7	64.7	65.1	65.1	65.1	65.1	65.1	65.1	65.1
IV 12000	7.0	40.4	49.3	58.9	64.9	66.4	66.4	66.8	66.8	67.1	67.1	67.1	67.1	67.1	67.1	67.1
IV 10000	7.0	44.9	54.8	65.4	71.6	73.6	73.6	74.0	74.0	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 9000	7.0	44.9	54.8	65.4	71.6	73.6	73.6	74.0	74.0	74.3	74.3	74.3	74.3	74.3	74.3	74.3
IV 8000	7.0	46.0	57.2	69.2	75.0	77.4	77.4	77.7	77.7	78.1	78.1	78.1	78.1	78.1	78.1	78.1
IV 7000	7.0	47.3	57.5	69.5	75.3	77.7	77.7	78.1	78.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IV 6000	7.0	47.3	57.5	69.5	75.7	78.1	78.1	78.4	78.4	78.7	78.7	78.7	78.7	78.7	78.7	78.7
IV 5000	7.0	47.6	57.9	69.8	76.0	78.4	78.4	78.8	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 4500	7.0	47.6	57.9	69.8	76.0	78.4	78.4	78.8	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 4000	7.0	48.6	59.3	70.9	78.1	80.5	80.5	80.8	80.8	81.2	81.2	81.2	81.2	81.2	81.2	81.2
IV 3500	7.0	48.6	59.6	71.6	79.8	81.2	81.2	81.5	81.5	81.9	81.9	81.9	81.9	81.9	81.9	81.9
IV 3000	7.0	49.7	61.0	73.0	81.2	83.6	83.6	84.3	84.3	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 2500	7.0	51.4	63.4	75.3	83.9	86.3	86.3	87.0	87.0	87.3	87.3	87.3	87.3	87.3	87.3	87.3
IV 2000	7.0	52.7	64.7	77.1	86.6	89.0	89.0	89.7	89.7	90.1	90.1	90.1	90.1	90.1	90.1	90.1
IV 1800	7.0	53.1	65.1	77.4	87.0	89.4	89.4	90.1	90.1	90.4	90.4	90.4	90.4	90.4	90.4	90.4
IV 1500	7.0	54.5	67.1	79.5	89.4	92.1	92.1	92.8	92.8	93.2	93.2	93.2	93.2	93.2	93.2	93.2
IV 1200	7.0	54.5	67.1	79.8	89.7	92.5	92.5	93.5	93.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 1000	7.0	54.5	67.5	80.1	90.4	93.8	93.8	95.2	95.2	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 900	7.0	55.1	67.8	80.8	91.1	94.5	94.5	95.9	95.9	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 800	7.0	55.1	67.8	80.8	91.1	94.5	94.5	95.9	95.9	96.6	96.6	96.6	96.6	96.6	96.6	96.6
IV 700	7.0	55.5	69.7	81.2	91.8	95.2	95.2	96.9	96.9	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 600	7.0	55.5	69.7	81.5	91.8	95.6	95.6	97.6	97.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	7.0	55.9	69.5	81.9	92.1	96.2	96.2	98.0	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 400	7.0	55.8	69.5	81.9	92.1	96.2	96.2	98.0	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 300	7.0	55.8	69.5	81.9	92.1	96.2	96.2	98.0	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 200	7.0	55.8	69.5	81.9	92.1	96.2	96.2	98.0	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 100	7.0	55.8	69.5	81.9	92.1	96.2	96.2	98.0	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 0	7.0	55.8	69.5	81.9	92.1	96.2	96.2	98.0	98.0	98.6	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS 7-2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

17773

QUANTICO, VA

61-78

1-17

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

17  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	70.2	34.5	41.6	47.1	49.5	50.2	51.7	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2
IV 20000	17.7	41.6	42.5	56.3	59.4	60.1	61.8	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
IV 18000	10.7	42.7	42.9	56.3	59.7	60.4	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 16000	10.7	42.7	42.9	56.3	59.7	60.4	62.1	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
IV 14000	10.7	42.7	42.9	57.3	60.8	61.4	63.1	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
IV 12000	10.7	44.0	51.2	59.0	62.4	63.5	65.2	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
IV 10000	12.6	47.8	56.3	65.5	69.6	70.7	72.4	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
IV 9000	12.6	48.1	56.7	65.9	70.0	71.0	72.7	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
IV 8000	14.3	50.5	60.1	70.3	74.4	75.4	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 7000	14.3	50.5	60.1	70.3	74.4	75.4	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 6000	14.3	51.2	61.6	71.0	75.1	76.1	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 5000	13.3	52.7	62.8	73.0	77.1	78.2	79.9	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
IV 4500	13.3	52.7	62.8	73.0	77.1	78.2	79.9	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
IV 4000	13.3	53.0	63.5	73.8	77.9	78.9	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 3500	13.3	56.7	67.6	77.8	87.3	88.3	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
IV 3000	13.3	59.7	71.3	81.9	86.4	87.7	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IV 2500	14.3	61.8	73.4	84.0	88.7	90.4	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 2000	14.3	64.2	75.8	86.7	91.5	93.2	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 1800	14.3	64.2	75.8	86.7	91.5	93.2	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
IV 1600	14.3	64.7	76.5	88.1	92.4	94.5	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
IV 1400	14.3	65.2	77.1	88.7	93.5	95.6	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 1200	14.3	65.2	77.1	88.7	93.5	95.6	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 1000	14.3	65.2	77.1	88.7	93.5	95.6	97.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
IV 900	14.3	66.2	78.2	89.8	94.3	96.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0
IV 800	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 700	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 600	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 500	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 400	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 300	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 200	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 100	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 0	14.3	66.6	78.5	90.2	94.9	96.9	99.0	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

293

DIRNAVOCEANMET SMOB



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
1773

QUANTICO, VA

STATION NAME

69-78

YEARS

AUG  
MONTHPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)22  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.7	44.9	52.4	54.3	57.5	60.3	62.5	64.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 20000	13.7	50.0	58.3	63.8	65.8	66.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 18000	13.7	50.0	58.3	63.8	65.8	66.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 16000	13.7	50.0	58.3	63.8	65.8	66.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 14000	13.7	50.0	58.3	63.8	65.8	66.5	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
≥ 12000	14.2	51.2	59.5	65.0	66.9	67.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 10000	14.2	56.7	65.4	71.7	74.8	75.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 9000	14.2	56.7	65.4	71.7	74.8	75.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
≥ 8000	14.2	59.8	69.7	76.8	79.1	79.9	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
≥ 7000	14.2	60.6	70.5	76.8	79.9	80.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 6000	14.2	61.3	71.2	77.2	80.3	81.1	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
≥ 5000	14.2	63.7	73.6	79.9	83.1	83.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 4500	14.2	63.7	73.6	79.9	83.1	83.9	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
≥ 4000	13.7	54.2	75.2	81.9	85.4	86.2	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3500	13.7	65.4	76.4	83.1	86.6	87.4	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
≥ 3000	13.7	66.5	78.4	85.4	87.4	90.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
≥ 2500	16.5	68.5	80.3	87.8	92.1	93.3	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 2000	16.5	70.1	81.9	89.8	93.7	94.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1800	16.5	70.1	81.9	89.8	93.7	94.9	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
≥ 1600	16.5	70.1	82.3	89.8	94.5	95.7	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
≥ 1400	16.5	70.5	82.7	90.2	94.9	96.1	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
≥ 1200	16.5	70.9	83.5	90.9	95.7	96.9	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
≥ 1000	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 900	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 800	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 700	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 600	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 500	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 300	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 100	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 0	16.5	71.3	85.9	91.3	96.1	97.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NUMBER OF OBSERVATIONS

2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	11.4	38.8	46.8	51.1	54.4	54.9	55.7	55.7	55.7	55.7	55.7	55.7	55.7	56.1	56.1
IV 20000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 18000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 16000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 14000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 12000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 10000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 9000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 8000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 7000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 6000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 5000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 4500	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 4000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 3500	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 3000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 2500	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 2000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 1800	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 1600	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 1400	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 1200	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 1000	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 900	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 800	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 700	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 600	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 500	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 400	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 300	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 200	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 100	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1
IV 0	13.1	46.7	55.3	61.2	65.0	65.4	66.7	66.7	66.7	66.7	66.7	66.7	66.7	67.1	67.1

TOTAL NUMBER OF OBSERVATIONS

277

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION 1073 STATION NAME 01-1100-01 50-76 YEARS 800 NORTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

72  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	1.0	31.7	4.7	69.3	54.3	56.1	57.5	57.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
≥ 20000	1.0	37.6	4.9	54.4	64.3	55.6	67.0	48.3	69.3	68.3	68.3	68.3	68.3	68.3	68.3
IV 18000	1.0	38.1	49.3	50.8	64.7	66.1	67.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 16000	1.0	38.1	49.3	51.8	64.7	66.1	67.4	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 14000	1.0	38.0	49.3	52.8	65.2	66.5	67.9	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
IV 12000	1.0	38.5	49.8	60.2	65.5	67.2	69.2	70.6	70.6	71.0	71.0	71.0	71.0	71.0	71.0
IV 10000	1.0	41.2	34.3	65.6	72.9	74.2	76.0	77.4	77.4	77.8	77.8	77.8	77.8	77.8	77.8
IV 9000	1.0	41.2	34.3	65.6	72.9	74.2	76.0	77.4	77.4	77.8	77.8	77.8	77.8	77.8	77.8
IV 8000	1.0	43.0	50.8	70.6	78.3	79.6	81.5	82.8	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 7000	1.0	43.4	50.8	71.0	78.7	80.1	81.9	83.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7
IV 6000	1.0	43.4	50.8	71.0	78.7	80.1	81.9	83.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7
IV 5000	1.0	44.5	61.1	73.3	81.7	82.4	84.2	85.5	85.5	86.0	86.0	86.0	86.0	86.0	86.0
IV 4500	1.0	45.3	61.5	73.8	81.9	83.3	85.1	86.4	86.4	86.7	86.9	86.9	86.9	86.9	86.9
IV 4000	1.0	45.7	62.4	75.1	83.3	84.6	86.4	87.8	87.8	88.2	88.2	88.2	88.2	88.2	88.2
IV 3500	1.0	47.1	64.3	76.9	85.5	86.9	88.7	90.1	90.1	90.5	90.5	90.5	90.5	90.5	90.5
IV 3000	1.0	47.5	64.7	77.4	86.0	87.8	89.6	91.0	91.0	91.4	91.4	91.4	91.4	91.4	91.4
IV 2500	1.0	48.0	65.2	77.8	86.9	88.7	91.0	92.3	92.3	92.8	92.8	92.8	92.8	92.8	92.8
IV 2000	1.0	48.4	65.6	78.7	88.2	90.5	93.2	94.6	94.6	95.0	95.0	95.0	95.0	95.0	95.0
IV 1800	1.0	48.4	65.6	78.7	88.2	90.5	93.2	94.6	94.6	95.0	95.0	95.0	95.0	95.0	95.0
IV 1600	1.0	48.2	67.4	80.5	90.5	92.8	95.5	96.8	96.8	97.3	97.3	97.3	97.3	97.3	97.3
IV 1400	1.0	48.7	67.9	81.0	91.0	93.2	95.9	97.3	97.3	97.7	97.7	97.7	97.7	97.7	97.7
IV 1200	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 1000	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 900	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 800	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 700	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 600	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 500	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 400	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 300	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 200	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 100	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1
IV 0	1.0	51.1	60.3	81.5	91.4	93.7	96.4	98.6	98.6	99.1	99.1	99.1	99.1	99.1	99.1

TOTAL NUMBER OF OBSERVATIONS 21

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

17-73

01-17-73

01-74

1973

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.7	41.7	59.2	63.6	63.3	56.7	47.2	37.2	37.7	37.7	37.7	37.7	37.7	37.7	37.7	37.7
≥ 20000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 18000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 16000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 14000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 12000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 10000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 9000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 8000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 7000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 6000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 5000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 4500	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 4000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 3500	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 3000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 2500	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 2000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 1800	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 1500	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 1200	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 1000	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 900	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 800	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 700	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 600	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 500	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 400	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 300	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 200	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 100	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1
IV 0	7.7	38.4	47.7	56.4	61.5	63.5	65.1	65.6	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1

TOTAL NUMBER OF OBSERVATIONS 2040

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

ASHEVILLE, NC

STATION NAME

62-74

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	35.7	40.6	52.5	51.7	57.1	57.6	57.6	57.5	54.1	55.1	53.1	53.1	50.1	50.1	50.1	50.1
≥ 20000	34.6	40.1	52.7	51.7	51.4	61.1	62.4	62.4	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
IV 18000	31.6	40.6	57.1	61.0	61.5	62.4	62.9	62.9	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 16000	31.6	40.6	57.6	61.9	62.4	62.9	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 14000	31.6	50.0	57.6	61.9	62.4	62.9	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
IV 12000	31.6	50.0	57.6	63.3	63.3	64.3	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
IV 10000	42.7	55.7	63.8	69.6	69.1	69.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IV 9000	42.7	55.7	63.8	69.6	69.1	69.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
IV 8000	46.2	61.5	69.1	74.3	75.2	75.7	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 7000	46.2	61.5	69.1	74.3	75.2	75.7	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
IV 6000	46.2	61.5	72.4	76.1	76.7	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 5000	46.2	61.5	72.4	76.1	76.7	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 4500	46.2	61.5	72.4	76.1	76.7	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 4000	46.2	61.5	72.4	76.1	76.7	76.7	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
IV 3500	51.4	66.7	77.1	83.3	84.3	84.8	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
IV 3000	53.8	69.5	81.0	87.6	88.6	89.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
IV 2500	54.3	70.5	81.9	88.6	89.5	90.0	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 2000	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 1800	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 1500	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 1200	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 1000	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 900	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 800	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 700	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 600	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 500	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 400	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 300	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 200	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 100	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
IV 0	55.2	72.4	84.3	91.0	91.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1½	≥ 1	≥ ¾	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 0
NO CEILING	75.2	41.1	51.1	54.5	54.5	56.2	58.7	55.7	57.8	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 20000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 18000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 16000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 14000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 12000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 10000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 9000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 8000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 7000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 6000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 5000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 4500	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 4000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 3500	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 3000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 2500	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 2000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 1800	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 1500	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 1200	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 1000	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 900	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 800	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 700	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 600	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 500	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 400	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 300	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 200	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 100	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 0	75.2	44.8	54.8	55.1	59.1	61.0	61.4	61.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

DUNSTON, VA

STATION NAME

60-76

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L &amp; T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	15.7	37.1	36.7	41.4	3.2	45.7	45.0	44.0	46.0	45.4	46.4	46.8	46.5	46.7	46.7	46.7
≥ 20000	29.9	37.4	41.0	45.7	47.8	50.4	51.1	51.1	51.1	51.4	51.4	51.8	51.8	51.4	51.4	51.4
IV 18000	29.9	37.4	41.0	45.7	47.8	50.4	51.1	51.1	51.1	51.4	51.4	51.8	51.8	51.4	51.4	51.4
IV 16000	70.2	37.3	41.4	46.7	48.6	51.1	51.8	51.8	51.8	52.2	52.2	52.8	52.8	52.8	52.8	52.8
IV 14000	70.2	37.3	41.4	46.7	48.6	51.1	51.8	51.8	51.8	52.2	52.2	52.8	52.8	52.8	52.8	52.8
IV 12000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 10000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 9000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 8000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 7000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 6000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 5000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 4500	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 4000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 3500	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 3000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 2500	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 2000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 1800	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 1500	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 1200	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 1000	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 900	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 800	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 700	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 600	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 500	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 400	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 300	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 200	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 100	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4
IV 0	74.5	43.2	48.2	53.6	56.1	59.0	59.7	59.7	59.7	60.1	60.1	60.4	60.4	60.4	60.4	60.4

TOTAL NUMBER OF OBSERVATIONS

7

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

ASHEVILLE, VA

STATION NAME

78

YEAR

MONTH

10

HOUS (L S Y)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	12.5	12.5	45.0	46.6	46.6	51.5	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 20000	13.5	40.0	45.0	49.6	53.8	56.9	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 18000	11.5	40.0	45.0	49.6	53.8	56.9	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 16000	12.5	40.0	45.0	49.6	53.8	56.9	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 14000	12.5	40.0	45.0	49.6	53.8	56.9	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 12000	12.5	40.0	45.0	49.6	53.8	56.9	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 10000	14.5	45.0	51.6	56.3	60.9	62.0	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
IV 9000	14.5	46.0	52.7	57.4	62.0	63.1	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
IV 8000	15.5	52.7	59.1	63.8	68.8	69.9	71.7	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
IV 7000	15.5	53.4	59.9	64.5	69.5	70.6	72.4	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
IV 6000	15.5	53.4	59.9	64.5	69.5	71.0	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
IV 5000	15.5	54.1	60.6	65.2	70.6	71.7	73.5	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
IV 4500	16.5	54.5	60.9	65.6	71.1	72.0	74.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
IV 4000	16.5	57.7	65.2	70.3	75.6	76.7	78.9	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
IV 3500	17.5	58.4	66.0	71.3	76.3	77.4	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
IV 3000	17.5	59.5	67.4	72.4	77.1	79.6	81.7	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
IV 2500	17.5	61.3	69.2	74.6	80.3	81.7	83.9	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
IV 2000	17.5	63.4	71.3	76.7	83.2	84.6	87.1	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
IV 1800	17.5	63.8	71.7	77.1	83.8	85.0	87.5	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
IV 1500	17.5	65.6	73.5	79.2	85.7	87.1	89.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 1200	17.5	66.0	73.5	79.6	85.4	88.2	91.4	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
IV 1000	17.5	67.1	75.3	81.0	88.2	90.3	93.6	93.9	93.9	93.9	94.3	94.3	94.3	94.3	94.3
IV 900	17.5	67.4	75.6	81.4	88.5	91.7	94.3	95.0	95.0	95.0	95.3	95.3	95.3	95.3	95.3
IV 800	17.5	67.4	76.0	82.1	89.3	91.8	95.0	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1
IV 700	20.1	67.4	76.0	82.4	89.6	92.1	95.3	96.1	96.1	96.1	96.4	96.4	96.4	96.4	96.4
IV 600	20.1	67.4	76.0	82.4	90.0	92.5	95.7	96.4	96.4	96.4	97.1	97.1	97.1	97.1	97.1
IV 500	20.4	67.7	74.3	83.2	91.0	93.9	97.1	97.9	97.9	98.2	98.6	98.6	98.6	98.6	98.6
IV 400	20.4	68.1	75.7	83.5	91.8	94.6	97.9	98.6	98.6	98.6	99.3	99.3	99.3	99.3	99.3
IV 300	20.4	68.1	76.7	83.5	91.8	95.0	98.6	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0
IV 200	20.4	68.1	76.7	83.5	91.8	95.0	98.6	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0
IV 100	20.4	68.1	76.7	83.5	91.8	95.0	98.6	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0
IV 0	20.4	68.1	76.7	83.5	91.8	95.0	98.6	99.3	99.3	99.3	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

279

DIRNAVOCEANMET SMOS



4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

NORTH CO., VA

STATION NAME

69-79

YEARS

SEP

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	14.7	47.5	44.6	46.6	48.3	48.4	47.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
≥ 20000	14.7	44.8	45.1	51.6	53.4	53.8	55.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
IV 18000	16.3	45.2	47.5	52.3	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 16000	16.3	45.2	47.5	52.3	53.8	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 14000	16.3	45.5	47.5	52.3	54.1	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
IV 12000	16.3	47.3	51.6	54.1	55.9	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 10000	17.5	51.3	55.9	56.8	60.9	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IV 9000	17.5	51.3	55.9	56.8	60.9	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
IV 8000	17.5	55.6	67.0	65.2	67.4	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
IV 7000	17.5	57.7	62.4	66.0	68.1	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
IV 6000	17.5	57.7	62.4	66.0	68.5	68.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
IV 5000	17.5	59.1	64.5	68.1	70.6	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
IV 4500	17.5	60.6	66.0	69.5	72.7	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
IV 4000	21.0	65.6	71.7	75.3	78.1	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
IV 3500	21.0	67.4	73.5	77.4	80.3	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
IV 3000	23.7	72.4	79.6	83.5	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 2500	24.0	74.2	81.7	86.0	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
IV 2000	24.0	76.3	84.6	88.9	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1800	24.0	76.3	84.6	88.9	92.1	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
IV 1500	24.0	77.4	85.7	90.0	94.3	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
IV 1200	24.0	78.1	86.4	91.0	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
IV 1000	24.0	78.5	86.7	91.4	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 900	24.0	78.5	86.7	91.4	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
IV 800	24.0	78.9	87.1	92.1	96.8	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
IV 700	24.0	78.9	87.1	92.1	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 600	24.0	78.9	87.1	92.1	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
IV 500	24.0	79.2	87.5	92.5	97.5	97.9	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 400	24.0	79.2	87.5	92.5	97.5	97.9	98.2	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 300	24.0	79.6	87.8	92.8	97.9	98.2	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 200	24.0	79.6	87.8	92.8	97.9	98.2	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 100	24.0	79.6	87.8	92.8	97.9	98.2	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
IV 0	24.0	79.6	87.8	92.8	97.9	98.2	98.9	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3

TOTAL NUMBER OF OBSERVATIONS

79

DIRNAVOCEANMET SMOS

4.

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

73

FITCH, VA

-78

SFF

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

16

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	33.2	47.4	52.3	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	55.3
≥ 20000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.8
IV 18000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 16000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 14000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 12000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 10000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 9000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 8000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 7000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 6000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 5000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 4500	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 4000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 3500	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 3000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 2500	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 2000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 1800	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 1500	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 1200	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 1000	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 900	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 800	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 700	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 600	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 500	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 400	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 300	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 200	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 100	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2
IV 0	23.3	54.7	57.7	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	61.2

TOTAL NUMBER OF OBSERVATIONS

217

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
1773

STATION NAME  
QUANTICO, VA

YEARS  
69-78

MONTH  
SEP

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)  
17

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 3 1/4	≥ 2	≥ 1 1/4	≥ 1 1/8	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 0
NO CEILING	4.4	41.4	45.0	49.6	50.0	40.0	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5
IV 20000	10.7	45.5	51.8	55.5	56.4	56.4	56.8	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 18000	10.7	45.5	51.8	55.5	56.4	56.4	56.8	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 16000	10.7	45.5	51.8	55.5	56.4	56.4	56.8	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
IV 14000	10.7	45.5	52.3	55.9	56.4	56.8	57.3	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
IV 12000	10.7	47.3	54.1	58.6	59.6	59.6	60.0	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
IV 10000	10.7	49.6	56.4	60.9	62.3	62.3	62.7	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
IV 9000	10.7	50.0	56.8	61.4	62.7	62.7	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
IV 8000	11.4	57.5	64.6	69.6	71.4	71.4	72.3	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
IV 7000	11.4	57.6	66.8	72.3	74.1	74.1	75.0	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
IV 6000	11.4	59.6	67.7	73.2	75.0	75.0	75.9	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
IV 5000	11.4	62.3	71.5	75.9	77.7	77.7	78.2	79.1	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 4500	11.4	62.3	70.9	75.9	77.7	78.2	79.1	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
IV 4000	12.7	66.4	74.6	80.0	82.7	83.2	84.1	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
IV 3500	12.7	67.7	76.4	81.8	84.6	85.7	85.9	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
IV 3000	13.2	70.5	79.6	85.0	86.2	86.6	89.6	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
IV 2500	13.2	70.9	80.3	85.5	88.6	89.6	90.5	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
IV 2000	13.2	71.2	80.9	86.8	90.5	91.4	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
IV 1800	13.2	71.4	81.9	86.8	90.5	91.4	92.3	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
IV 1500	13.2	71.8	81.4	87.3	90.9	91.8	93.2	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
IV 1200	13.2	72.3	81.8	88.6	92.3	93.2	94.6	95.0	95.0	95.0	95.0	95.0	95.0	95.0	95.0
IV 1000	13.2	73.2	82.7	89.6	93.2	94.1	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 900	13.2	73.2	82.7	89.6	93.2	94.1	95.5	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
IV 800	13.2	73.6	83.2	90.0	93.6	95.0	96.4	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 700	13.2	73.6	83.2	90.0	93.6	95.0	96.4	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
IV 600	13.2	74.1	84.1	90.9	94.6	95.9	97.7	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	13.2	74.1	84.1	90.9	94.6	95.9	97.7	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 400	13.2	74.6	84.6	91.4	95.7	96.4	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 300	13.2	74.6	84.6	91.4	95.7	96.4	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 200	13.2	74.6	84.6	91.4	95.7	96.4	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 100	13.2	74.6	84.6	91.4	95.7	96.4	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
IV 0	13.2	74.6	84.6	91.4	95.7	96.4	98.2	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS 127

DIRNAVOCEANMET SMOS

4.

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

1-73

QUANTICO, VA

6-75

SEP

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)27  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ 0
NO CEILING	2.7	38.6	45.2	41.4	54.8	54.8	55.2	55.2	55.2	55.7	55.7	55.7	55.7	55.7	55.7	56.2
≥ 20000	3.7	41.4	51.9	57.6	61.4	61.4	61.9	62.4	62.4	62.4	62.9	62.9	62.9	62.9	62.9	63.3
IV 18000	3.7	42.4	51.9	56.1	61.9	61.9	62.4	62.9	62.9	62.9	63.3	63.3	63.3	63.3	63.3	63.8
IV 16000	3.7	42.4	51.9	58.1	61.9	61.9	62.4	62.9	62.9	62.9	63.3	63.3	63.3	63.3	63.3	63.8
IV 14000	3.7	42.4	51.9	56.1	61.9	61.9	62.4	62.9	62.9	62.9	63.3	63.3	63.3	63.3	63.3	63.8
IV 12000	3.7	43.4	52.9	60.0	63.8	63.8	64.3	64.8	64.8	65.2	65.2	65.2	65.2	65.2	65.2	65.7
IV 10000	3.7	48.4	54.4	65.7	69.5	69.5	70.5	71.0	71.0	71.4	71.4	71.4	71.4	71.4	71.4	71.9
IV 9000	3.7	48.4	54.4	65.7	69.5	69.5	70.5	71.0	71.0	71.4	71.4	71.4	71.4	71.4	71.4	71.9
IV 8000	3.7	54.4	65.2	72.4	77.6	77.6	79.1	79.5	79.5	80.5	80.5	80.5	80.5	80.5	80.5	81.4
IV 7000	3.7	54.4	65.2	72.4	77.6	77.6	79.1	79.5	80.0	80.0	81.0	81.0	81.0	81.0	81.0	81.4
IV 6000	3.7	55.2	65.7	72.4	78.6	78.6	80.0	80.5	80.5	81.0	81.0	81.0	81.0	81.0	81.0	81.9
IV 5000	3.7	57.1	69.1	75.2	81.4	81.4	82.4	82.9	82.9	83.8	83.8	83.8	83.8	83.8	83.8	84.3
IV 4500	3.7	57.1	69.1	75.2	81.4	81.4	82.9	83.3	83.3	84.3	84.3	84.3	84.3	84.3	84.3	84.8
IV 4000	3.7	59.5	72.4	79.5	85.7	85.7	87.1	87.6	87.6	88.6	88.6	88.6	88.6	88.6	88.6	89.1
IV 3500	3.7	60.5	71.8	81.0	87.1	87.1	88.6	89.1	89.1	90.0	90.0	90.0	90.0	90.0	90.0	90.5
IV 3000	3.7	61.0	74.2	82.4	88.6	88.6	90.0	90.5	90.5	91.4	91.4	91.4	91.4	91.4	91.4	91.9
IV 2500	3.7	61.0	75.7	82.9	89.5	89.5	91.0	91.4	91.4	92.4	92.4	92.4	92.4	92.4	92.4	92.9
IV 2000	3.7	61.4	76.2	83.8	90.5	90.5	91.9	92.4	92.4	93.3	93.3	93.3	93.3	93.3	93.3	93.8
IV 1800	3.7	61.4	76.2	83.8	91.4	91.4	92.4	92.9	92.9	93.8	93.8	93.8	93.8	93.8	93.8	94.3
IV 1500	3.7	61.4	77.1	85.2	92.4	92.4	93.8	94.3	94.3	95.2	95.2	95.2	95.2	95.2	95.2	95.7
IV 1200	3.7	61.4	77.1	85.2	92.4	92.4	93.8	94.3	94.3	95.2	95.2	95.2	95.2	95.2	95.2	95.7
IV 1000	3.7	62.4	78.1	86.2	93.3	93.3	94.8	95.2	95.2	96.2	96.2	96.2	96.2	96.2	96.2	96.7
IV 900	3.7	62.4	78.1	86.2	93.3	93.3	94.8	95.2	95.2	96.2	96.2	96.2	96.2	96.2	96.2	96.7
IV 800	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.2	96.7	97.6	97.6	97.6	97.6	97.6	97.6	98.1
IV 700	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.7	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.6
IV 600	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.7	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.6
IV 500	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.7	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.6
IV 400	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.7	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.6
IV 300	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.7	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.6
IV 200	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.7	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.6
IV 100	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.7	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.6
IV 0	3.7	62.4	79.6	86.7	93.8	93.8	94.8	96.7	97.1	97.1	98.1	98.1	98.1	98.1	98.1	98.6

TOTAL NUMBER OF OBSERVATIONS 210

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

10773  
STATIONQUANTICO, VA  
STATION NAME69-78  
YEARSCFO  
DOOTSPERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)ALL  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0
NO CEILING	4.0	17.7	43.6	46.2	50.9	51.4	52.3	52.4	52.4	52.6	52.7	52.7	52.7	52.8	52.8
≥ 20000	10.7	41.2	47.9	52.8	55.9	56.4	57.0	57.7	57.7	57.9	58.1	58.2	58.2	58.3	58.4
≥ 18000	10.7	41.4	48.1	53.0	56.1	56.6	57.6	57.9	57.9	58.1	58.2	58.2	58.2	58.3	58.4
≥ 16000	10.7	41.4	48.2	53.1	56.1	56.7	57.6	57.9	57.9	58.1	58.2	58.2	58.2	58.3	58.4
≥ 14000	10.7	41.9	48.3	53.3	56.3	56.9	57.9	58.2	58.2	58.4	58.5	58.5	58.5	58.6	58.7
≥ 12000	10.7	42.8	49.3	55.0	58.1	58.7	59.7	60.0	60.0	60.2	60.3	60.3	60.3	60.4	60.5
≥ 10000	10.7	46.4	54.2	59.7	63.2	63.8	64.9	65.2	65.2	65.4	65.5	65.5	65.6	65.6	65.7
≥ 9000	10.7	46.6	54.5	59.9	63.4	64.0	65.1	65.4	65.4	65.6	65.7	65.7	65.8	65.8	65.9
≥ 8000	11.0	52.3	60.9	66.8	70.7	71.6	72.9	73.3	73.3	73.6	73.7	73.7	73.8	73.8	73.9
≥ 7000	11.0	53.2	61.8	67.8	71.8	72.7	74.0	74.4	74.4	74.7	74.8	74.8	74.9	74.9	75.0
≥ 6000	11.0	53.4	62.1	68.2	72.3	73.2	74.4	74.9	74.9	75.2	75.3	75.3	75.4	75.4	75.5
≥ 5000	12.1	55.5	64.1	70.2	74.4	75.3	76.6	77.1	77.1	77.4	77.5	77.5	77.6	77.6	77.7
≥ 4500	12.2	55.6	64.7	70.8	75.1	76.0	77.4	77.9	77.9	78.2	78.3	78.3	78.4	78.4	78.5
≥ 4000	12.7	58.6	68.3	74.7	79.5	80.3	81.7	82.2	82.2	82.5	82.6	82.6	82.7	82.7	82.8
≥ 3500	13.7	59.6	69.7	76.3	81.7	81.9	83.3	83.8	83.8	84.1	84.2	84.2	84.2	84.3	84.4
≥ 3000	13.3	62.0	72.5	79.3	84.4	85.4	86.7	87.3	87.3	87.6	87.7	87.7	87.7	87.8	87.9
≥ 2500	13.7	63.0	73.6	80.7	85.8	86.8	88.2	88.8	88.8	89.1	89.2	89.2	89.2	89.3	89.4
≥ 2000	13.7	64.2	75.2	82.4	87.9	89.0	90.5	91.1	91.1	91.4	91.5	91.5	91.6	91.6	91.7
≥ 1800	13.7	64.4	75.4	82.6	88.1	89.2	90.7	91.4	91.4	91.7	91.8	91.8	91.8	91.9	92.0
≥ 1500	13.7	65.3	76.2	83.6	89.0	90.5	92.0	92.7	92.7	93.1	93.2	93.2	93.2	93.3	93.4
≥ 1200	13.7	65.2	76.5	84.1	90.1	91.2	92.9	93.6	93.6	94.0	94.1	94.1	94.1	94.2	94.3
≥ 1000	14.0	65.7	77.2	85.3	91.1	92.5	94.1	94.9	94.9	95.4	95.5	95.5	95.6	95.6	95.7
≥ 900	14.1	65.7	77.4	85.1	91.2	92.8	94.4	95.3	95.3	95.8	95.9	95.9	96.0	96.1	96.2
≥ 800	14.1	66.1	77.6	85.6	91.7	93.5	95.2	96.2	96.2	96.6	96.8	96.8	96.8	96.9	97.0
≥ 700	14.1	66.2	77.7	85.7	91.9	93.7	95.4	96.4	96.4	96.8	97.0	97.0	97.0	97.1	97.2
≥ 600	14.1	66.2	77.9	85.9	92.2	94.0	95.8	96.7	96.7	97.4	97.6	97.6	97.6	97.7	97.8
≥ 500	14.3	66.8	78.2	86.2	92.6	94.7	96.8	97.8	97.8	98.4	98.7	98.7	98.7	98.8	98.9
≥ 400	14.3	66.6	78.4	86.4	92.9	95.1	97.2	98.2	98.2	98.8	99.1	99.1	99.1	99.2	99.3
≥ 300	14.3	66.7	78.4	86.5	93.0	95.2	97.5	98.5	98.5	99.3	99.5	99.5	99.5	99.6	99.7
≥ 200	14.3	66.7	78.4	86.5	93.0	95.2	97.5	98.6	98.6	99.4	99.7	99.7	99.7	99.8	99.9
≥ 100	14.3	66.7	78.4	86.5	93.0	95.2	97.5	98.6	98.6	99.4	99.7	99.7	99.7	99.8	99.9
≥ 0	14.3	66.7	78.4	86.5	93.0	95.2	97.5	98.6	98.6	99.4	99.7	99.7	99.7	99.8	99.9

TOTAL NUMBER OF OBSERVATIONS 1027

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

1973

CHARLOTTE, NC

4-75

001

STATION

STATION NAME

YEAR

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01

NOON (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 3	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	2.3	46.4	57.4	56.7	60.8	60.9	61.3	61.8	61.8	62.2	62.2	62.2	62.2	62.2	62.2	62.2
≥ 30000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 18000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 16000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 14000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 12000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 10000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 9000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 8000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 7000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 6000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 5000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 4500	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 4000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 3500	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 3000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 2500	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 2000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 1800	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 1500	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 1200	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 1000	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 900	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 800	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 700	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 600	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 500	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 400	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 300	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 200	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 100	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8
≥ 0	2.3	46.4	57.1	59.9	64.5	64.5	65.9	66.4	66.4	66.8	66.8	66.8	66.8	66.8	66.8	66.8

TOTAL NUMBER OF OBSERVATIONS

217

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION  
1073

CLASCO, VA

STATION NAME

65-76

YEARS

207

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)JULY  
HOUSE (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	1.7	42.7	43.8	53.1	55.7	59.0	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 20000	1.7	40.3	52.3	56.1	61.1	61.9	62.8	63.2	63.2	63.2	63.6	63.6	63.6	63.6	63.6	63.6
≥ 18000	1.7	40.3	52.3	56.1	61.1	62.3	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 16000	1.7	40.3	52.3	56.1	61.1	62.3	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 14000	1.7	40.3	52.3	56.1	61.1	62.3	63.2	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
≥ 12000	1.7	45.7	53.1	56.9	62.3	63.2	64.4	64.9	64.9	64.9	65.3	65.3	65.3	65.3	65.3	65.3
≥ 10000	1.7	47.7	55.7	59.8	65.3	66.1	67.8	68.2	68.2	68.2	68.6	68.6	68.6	68.6	68.6	68.6
≥ 9000	1.7	47.7	55.7	59.8	65.3	66.1	67.8	68.2	68.2	68.2	68.6	68.6	68.6	68.6	68.6	68.6
≥ 8000	1.7	49.4	57.3	61.9	67.4	68.2	69.9	70.3	70.3	70.3	70.7	70.7	70.7	70.7	70.7	70.7
≥ 7000	1.7	49.4	57.3	61.9	67.4	68.2	69.9	70.3	70.3	70.3	70.7	70.7	70.7	70.7	70.7	70.7
≥ 6000	1.7	50.8	58.6	63.2	68.6	69.6	71.1	71.6	71.6	71.6	72.0	72.0	72.0	72.0	72.0	72.0
≥ 5000	1.7	51.3	61.5	66.1	72.7	72.8	74.5	74.9	74.9	74.9	75.3	75.3	75.3	75.3	75.3	75.3
≥ 4500	1.7	53.1	62.8	67.4	73.2	74.1	75.7	76.2	76.2	76.2	76.6	76.6	76.6	76.6	76.6	76.6
≥ 4000	1.7	55.2	64.7	69.9	76.2	77.7	78.7	79.1	79.1	79.1	79.5	79.5	79.5	79.5	79.5	79.5
≥ 3500	1.7	55.7	65.3	70.3	76.6	77.4	79.1	79.5	79.5	79.5	79.9	79.9	79.9	79.9	79.9	79.9
≥ 3000	1.7	56.9	67.4	73.2	80.3	81.2	82.9	83.3	83.3	83.3	83.7	83.7	83.7	83.7	83.7	83.7
≥ 2500	1.7	58.2	68.6	74.9	82.0	82.9	84.9	85.4	85.4	85.4	85.8	85.8	85.8	85.8	85.8	85.8
≥ 2000	1.7	58.6	69.0	75.7	83.3	84.1	86.2	86.6	86.6	86.6	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1800	1.7	58.6	69.0	75.7	83.3	84.1	86.2	86.6	86.6	86.6	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1500	1.7	58.6	69.0	75.7	83.3	84.1	86.2	86.6	86.6	86.6	87.0	87.0	87.0	87.0	87.0	87.0
≥ 1200	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 1000	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 900	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 800	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 700	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 600	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 500	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 400	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 300	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 200	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 100	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1
≥ 0	1.7	59.4	69.9	76.0	84.5	85.4	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1

TOTAL NUMBER OF OBSERVATIONS

2

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

STATION

STATION

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ ⅓	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 18000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 16000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 14000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 12000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 20000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 18000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 16000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 14000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 12000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 10000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 9000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 8000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 7000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 6000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 5000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 4500	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 4000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 3500	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 3000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 2500	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 2000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 1800	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 1500	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 1200	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 1000	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 900	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 800	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 700	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 600	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 500	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 400	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 300	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 200	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 100	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7
≥ 0	18.2	41.7	44.7	45.6	47.1	47.5	48.3	48.3	48.7	48.7	48.7	48.7	48.7	48.7	48.7	48.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

1977

STATION, VA

1977

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L S Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	1.0	44.4	47.7	43.5	45.9	48.9	4.0	42.9	45.0	47.9	47.9	46.9	45.9	49.1	47.2	47.2
≥ 20000	1.0	55.4	57.9	54.6	55.4	55.8	55.8	55.8	55.8	55.8	55.8	55.8	55.8	56.2	56.2	55.0
IV 18000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 16000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 14000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 12000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 10000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 9000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 8000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 7000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 6000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 5000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 4500	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 4000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 3500	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 3000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 2500	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 2000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 1800	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 1500	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 1200	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 1000	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 900	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 800	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 700	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 600	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 500	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 400	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 300	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 200	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 100	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5
IV 0	2.0	57.9	54.2	55.0	55.8	56.2	56.2	56.2	55.7	56.2	56.2	56.2	56.2	56.2	56.5	56.5

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME STATION NAME YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	51.2	51.2	51.2	52.7	57.6	54.2	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0	54.0
≥ 20000	57.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 18000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 16000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 14000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 12000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 10000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 9000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 8000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 7000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 6000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 5000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 4500	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 4000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 3500	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 3000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 2500	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 2000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 1800	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 1500	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 1200	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 1000	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 900	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 800	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 700	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 600	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 500	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 400	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 300	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 200	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 100	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
IV 0	7.4	53.2	54.3	56.1	57.7	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4

TOTAL NUMBER OF OBSERVATIONS

2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L & Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 20000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 18000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 16000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 14000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 12000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 10000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 9000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 8000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 7000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 6000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 5000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 4500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 4000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 3500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 3000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 2500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 2000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 1800	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 1500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 1200	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 1000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 900	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 800	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 700	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 600	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 400	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 300	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 200	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 100	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
IV 0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L &amp; T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.0	11.0	57.7	68.7	69.8	6.5	51.9	54.9	57.9	51.9	50.9	50.9	50.9	50.9	50.9	50.9
IV 20000	1.0	2.0	57.7	68.5	6.4	6.4	12.2	7.2	67.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 18000	1.0	2.0	57.7	68.5	6.4	6.4	12.2	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 16000	1.0	2.0	57.7	68.5	6.4	6.4	12.2	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 14000	1.0	3.0	57.1	68.6	6.4	6.4	12.2	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 12000	1.0	3.0	57.1	68.6	6.4	6.4	12.2	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 10000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 9000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 8000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 7000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 6000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 5000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 4500	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 4000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 3500	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 3000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 2500	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 2000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 1800	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 1500	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 1200	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 1000	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 900	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 800	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 700	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 600	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 500	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 400	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 300	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 200	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 100	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7
IV 0	1.0	5.0	57.6	68.9	6.1	6.1	12.4	7.2	62.7	62.7	62.7	62.7	62.7	62.7	62.7	6.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION: 100, 24 STATION NAME: 77 YEARS: 1971  
 PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS) HOURS (LST):

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	11.0	45.1	44.9	53.7	53.0	53.3	53.7	53.5	53.9	54.0	54.1	54.1	54.1	54.1	54.2	54.2
≥ 20000	11.0	44.7	52.0	54.0	56.9	56.0	57.5	57.7	57.8	58.1	58.0	58.0	58.1	58.1	58.2	58.7
IV 18000	12.3	44.7	52.0	54.1	56.8	56.9	57.6	57.8	57.9	58.1	58.1	58.1	58.2	58.2	58.3	58.7
IV 14000	11.3	44.1	52.1	54.1	56.7	57.0	57.6	57.9	58.0	58.1	58.2	58.2	58.2	58.2	58.4	58.4
IV 14000	12.3	44.4	53.4	54.5	57.7	57.3	58.0	58.2	58.3	58.4	58.5	58.5	58.5	58.5	58.7	58.7
IV 12000	12.7	44.8	53.9	56.1	59.9	59.2	67.1	60.3	61.4	60.6	60.6	60.6	60.7	60.7	60.8	60.8
IV 10000	13.1	52.0	57.2	59.7	62.8	63.1	64.0	64.3	64.9	64.6	64.6	64.6	64.7	64.7	64.8	64.8
IV 9000	13.1	52.0	57.3	59.9	62.7	63.1	64.2	64.5	64.6	64.7	64.8	64.8	64.8	64.9	65.0	65.0
IV 8000	13.0	55.5	61.3	74.1	67.1	67.5	68.6	68.9	69.0	69.2	69.2	69.2	69.3	69.3	69.4	69.4
IV 7000	13.0	57.1	62.0	75.0	69.0	68.4	69.5	69.8	69.9	70.1	70.1	70.1	70.2	70.2	70.3	70.3
IV 6000	13.0	57.6	62.8	65.6	69.6	69.0	70.1	70.4	70.5	70.7	70.7	70.7	70.8	70.8	70.9	70.9
IV 5000	14.4	59.5	64.9	67.1	71.0	71.4	72.5	72.8	72.9	73.1	73.1	73.1	73.2	73.3	73.4	73.4
IV 4500	14.5	61.7	64.1	69.1	72.3	72.7	73.8	74.1	74.2	74.4	74.4	74.4	74.5	74.6	74.7	74.7
IV 4000	14.0	62.3	67.5	71.6	74.9	75.4	76.5	76.9	77.0	77.1	77.2	77.2	77.2	77.3	77.4	77.4
IV 3500	14.0	74.0	67.4	72.9	76.3	76.6	78.0	78.3	78.4	78.6	78.6	78.6	78.7	78.8	78.9	78.9
IV 3000	14.0	76.7	72.8	76.2	80.0	80.5	81.7	82.0	82.1	82.3	82.4	82.4	82.4	82.5	82.6	82.6
IV 2500	14.0	68.7	74.6	75.1	81.9	82.5	83.8	84.2	84.3	84.5	84.6	84.6	84.6	84.7	84.8	84.8
IV 2000	14.0	69.4	75.5	79.7	83.9	84.5	86.0	86.5	86.6	86.9	86.9	86.9	87.0	87.1	87.2	87.2
IV 1800	14.0	69.5	75.9	79.8	84.0	84.6	86.2	86.7	86.8	87.1	87.1	87.1	87.1	87.2	87.3	87.3
IV 1500	14.0	70.4	77.3	81.2	85.6	86.3	88.1	88.5	88.6	88.9	89.0	89.0	89.0	89.1	89.2	89.2
IV 1200	14.0	71.1	77.1	82.2	86.7	87.4	89.2	89.7	89.8	90.1	90.2	90.2	90.2	90.3	90.4	90.4
IV 1000	14.0	71.4	77.6	83.1	88.0	89.1	90.7	91.5	91.7	92.0	92.1	92.1	92.2	92.3	92.4	92.4
IV 900	14.0	71.4	77.7	83.1	88.3	89.5	91.5	92.1	92.3	92.7	92.7	92.7	92.8	92.9	93.0	93.1
IV 800	14.0	72.2	78.4	84.1	89.2	90.4	92.4	93.2	93.4	93.6	93.9	93.9	94.0	94.1	94.2	94.3
IV 700	14.0	72.4	78.7	84.5	89.7	91.4	93.1	93.9	94.1	94.6	94.7	94.7	94.8	94.9	95.0	95.1
IV 600	14.0	72.5	78.9	84.7	90.0	91.3	93.5	94.5	94.6	95.3	95.4	95.4	95.5	95.6	95.8	95.8
IV 500	14.0	72.6	80.1	85.1	90.7	92.2	94.5	95.9	96.1	97.0	97.2	97.3	97.4	97.5	97.7	97.8
IV 400	14.0	72.6	80.1	85.2	90.9	92.5	95.2	96.3	96.4	97.6	98.0	98.0	98.0	98.1	98.2	98.3
IV 300	14.0	72.6	80.1	85.3	90.9	92.6	95.4	96.5	96.6	98.0	98.5	98.5	98.6	98.7	98.8	98.9
IV 200	14.0	72.6	80.1	85.3	90.9	92.6	95.4	96.5	96.6	98.0	98.5	98.5	98.6	98.7	98.8	98.9
IV 100	14.0	72.6	80.1	85.3	90.9	92.6	95.4	96.5	96.6	98.0	98.5	98.5	98.6	98.7	98.8	98.9
IV 0	14.0	72.6	80.1	85.3	90.9	92.6	95.4	96.5	96.6	98.0	98.5	98.5	98.6	98.7	98.8	98.9

TOTAL NUMBER OF OBSERVATIONS 1910

DIRNAVOCEANMET SMOS



4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

QUANTICO, VA

STATION NAME

62-75

YEARS

NOV

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

01

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	≥ 5/16	¾	≥ 0
NO CEILING	2.4	51.2	54.3	56.3	58.3	56.3	57.3	56.3	56.3	56.3	56.7	56.7	56.7	56.7	56.7	56.7
≥ 20000	2.4	57.2	57.1	62.3	62.7	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 18000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 16000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 14000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 12000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 10000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 9000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 8000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 7000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 6000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 5000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 4500	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 4000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 3500	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 3000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 2500	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 2000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 1800	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 1600	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 1400	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 1200	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 1000	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 900	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 800	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 700	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 600	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 500	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 400	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 300	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 200	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 100	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5
≥ 0	2.4	57.2	57.1	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.5	62.5	62.5	62.5	62.5	62.5

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

1977

01/01/77

1-76

N

STATION

STATION NAME

YEAR

ROUTE

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

GROUP 1 (S. 1)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 1/2	≥ 1/4	≥ 1/8	≥ 0
NO CEILING	1.4	87.5	50.3	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
≥ 20000	1.4	54.5	50.3	57.7	57.7	57.7	58.7	59.1	59.1	59.1	59.6	59.6	59.6	60.1	60.1	60.1
N 18000	1.4	44.5	50.3	57.7	57.7	57.7	58.7	59.1	59.1	59.6	59.6	59.6	59.6	60.1	60.1	60.1
N 16000	1.4	44.5	50.3	57.7	57.7	57.7	58.7	59.1	59.1	59.6	59.6	59.6	59.6	60.1	60.1	60.1
N 14000	1.4	44.5	50.3	57.7	57.7	57.7	58.7	59.1	59.1	59.6	59.6	59.6	59.6	60.1	60.1	60.1
N 12000	1.4	50.5	50.3	59.7	59.1	59.1	59.1	59.6	59.6	60.1	60.1	60.1	60.1	60.1	60.1	60.1
N 10000	1.4	59.2	50.3	64.8	64.8	64.8	67.8	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
N 9000	1.4	59.2	64.8	67.3	67.3	67.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
N 8000	1.4	62.5	64.8	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
N 7000	1.4	63.0	70.1	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
N 6000	1.4	64.4	70.1	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
N 5000	1.4	64.5	74.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
N 4500	1.4	64.5	74.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
N 4000	1.4	64.7	77.5	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3	81.3
N 3500	1.4	66.2	77.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
N 3000	1.4	66.2	82.7	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
N 2500	1.4	66.2	85.6	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 2000	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 1800	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 1500	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 1200	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 1000	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 900	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 800	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 700	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 600	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 500	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 400	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 300	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 200	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 100	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
N 0	1.4	66.2	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1

TOTAL NUMBER OF OBSERVATIONS

216

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

1773

ASHEVILLE, NC

40-77

NCV

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L.O.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	1.0	49.6	47.4	51.5	52.4	53.7	54.1	55.0	55.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 20000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
18000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
16000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
14000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
12000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
10000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
8000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
6000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
4000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
3000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
2500	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
2000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
1800	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
1600	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
1400	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
1200	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
1000	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
800	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
600	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
400	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
300	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
200	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
100	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9
0	1.0	50.2	52.4	54.6	55.0	57.1	57.6	58.4	58.4	58.9	58.9	58.9	58.9	58.9	58.9	58.9

TOTAL NUMBER OF OBSERVATIONS

21

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NO. 1073

DATE 6-17

MONTH

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

10

NOVEMBER (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 20000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 18000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 16000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 14000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 12000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 10000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 9000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 8000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 7000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 6000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 5000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 4300	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 4000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 3300	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 3000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 2500	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 2000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 1800	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 1500	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 1200	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 1000	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 900	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 800	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 700	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 600	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 500	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 400	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 300	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 200	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 100	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0
IV 0	18.4	43.7	41.3	47.2	44.2	48.6	44.6	43.4	47.6	48.6	48.5	43.6	49.0	49.0	49.0

TOTAL NUMBER OF OBSERVATIONS

247

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

1773

ASTORIA, VA

64-77

40V

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)1  
HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	¾	≥ 0
NO CEILING	1.0	41.4	42.4	43.0	43.4	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
≥ 20000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 18000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 14000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 14000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 12000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 10000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 9000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 8000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 7000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 6000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 5000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 4500	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 4000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 3500	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 3000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 2500	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 2000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 1800	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 1500	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 1200	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 1000	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 900	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 800	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 700	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 600	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 500	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 400	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 300	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 200	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 100	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4
IV 0	21.0	48.6	50.2	51.0	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4	51.4

TOTAL NUMBER OF OBSERVATIONS

240

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

11-77

YEAR

NOV

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ 1/8	≥ 0
NO CEILING	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 20000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 18000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 16000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 14000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 12000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 10000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 9000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 8000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 7000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 6000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 5000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 4500	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 4000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 3500	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 3000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 2500	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 2000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 1800	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 1500	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 1200	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 1000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 900	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 800	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 700	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 600	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 500	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 400	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 300	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 200	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 100	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 0	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6

TOTAL NUMBER OF OBSERVATIONS

21

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME: STATION NAME: YEAR: MONTH: HOURS (LAST):

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
≥ 20000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 18000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 16000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 14000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 12000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 10000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 9000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 8000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 7000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 6000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 5000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 4500	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 4000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 3500	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 3000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 2500	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 2000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 1800	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 1500	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 1200	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 1000	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 900	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 800	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 700	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 600	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 500	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 400	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 300	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 200	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 100	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IV 0	1.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

TOTAL NUMBER OF OBSERVATIONS: \_\_\_\_\_

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.0	47.7	47.9	51.0	51.7	51.7	51.7	52.1	52.1	52.3	52.3	52.3	52.5	52.6	52.6	52.7
≥ 20000	12.3	3.0	3.0	56.9	57.4	57.6	57.8	58.0	58.0	58.3	58.3	58.3	58.4	58.4	58.5	58.5
≥ 18000	12.3	3.0	35.5	55.9	57.4	57.6	57.8	58.0	58.0	58.3	58.3	58.3	58.4	58.4	58.5	58.5
≥ 16000	12.3	3.0	35.5	55.9	57.4	57.6	57.8	58.0	58.0	58.3	58.3	58.3	58.4	58.4	58.5	58.5
≥ 14000	12.3	33.3	55.7	57.1	57.7	57.9	58.1	58.3	58.3	58.5	58.5	58.5	58.6	58.7	58.8	58.8
≥ 12000	12.3	34.5	57.3	59.6	59.5	59.5	59.7	59.9	59.9	60.1	60.1	60.1	60.3	60.7	60.9	61.4
≥ 10000	1.0	57.8	63.2	64.2	64.9	65.2	65.3	65.4	65.4	65.8	65.8	65.8	65.9	65.9	66.0	66.1
≥ 9000	13.0	60.7	67.2	64.8	65.6	65.7	66.0	66.2	66.2	66.4	66.4	66.4	66.4	66.6	66.7	66.7
≥ 8000	1.0	55.3	67.8	71.1	71.1	71.3	71.5	71.6	71.6	71.9	71.9	71.9	72.0	72.1	72.1	72.2
≥ 7000	14.7	66.8	71.0	71.8	72.4	73.1	73.2	73.4	73.4	73.7	73.7	73.7	73.8	73.9	73.9	74.0
≥ 6000	14.0	67.8	71.1	72.0	73.0	74.2	74.4	74.6	74.6	74.9	74.9	74.9	75.0	75.0	75.1	75.1
≥ 5000	14.0	70.5	73.9	75.0	77.1	77.4	77.6	77.8	77.8	78.0	78.0	78.0	78.2	78.2	78.3	78.3
≥ 4500	17.1	71.1	74.6	76.5	77.7	79.0	79.3	79.5	79.5	79.8	79.8	79.8	79.9	79.9	79.9	79.9
≥ 4000	17.4	73.5	77.2	79.2	80.4	80.7	81.1	81.3	81.7	81.7	81.7	81.7	81.8	81.8	81.9	81.9
≥ 3500	17.0	74.6	77.4	80.6	81.8	82.2	82.6	82.8	82.8	83.1	83.1	83.1	83.2	83.3	83.3	83.4
≥ 3000	17.4	76.0	80.7	82.9	84.2	84.6	85.0	85.2	85.2	85.6	85.6	85.6	85.7	85.7	85.8	85.8
≥ 2500	16.0	78.2	81.4	84.6	86.7	86.6	87.0	87.4	87.4	87.8	87.8	87.8	87.9	88.0	88.1	88.1
≥ 2000	17.2	79.5	84.7	86.5	89.0	88.4	88.7	89.2	89.2	89.7	89.7	89.7	89.9	89.9	90.0	90.1
≥ 1800	17.0	79.5	84.7	86.6	88.1	88.4	88.8	89.4	89.4	89.9	89.9	89.9	90.0	90.0	90.1	90.1
≥ 1500	17.3	79.9	84.9	87.4	89.7	89.4	89.6	90.5	90.5	91.1	91.1	91.1	91.2	91.3	91.4	91.4
≥ 1200	17.3	80.3	85.1	88.1	89.6	90.1	90.6	91.0	91.0	92.0	92.0	92.0	92.1	92.2	92.3	92.3
≥ 1000	17.4	80.4	85.5	88.5	90.3	90.9	91.4	92.5	92.5	93.1	93.1	93.1	93.3	93.3	93.4	93.4
≥ 900	17.4	80.7	85.8	88.6	90.4	91.1	91.7	92.9	92.9	93.5	93.5	93.5	93.7	93.8	93.9	93.9
≥ 800	17.4	80.9	85.7	89.0	90.9	91.6	92.3	93.8	93.8	94.5	94.5	94.5	94.7	94.8	94.8	94.8
≥ 700	17.4	80.9	85.9	89.1	91.0	91.9	92.6	94.3	94.3	95.2	95.3	95.4	95.6	95.6	95.7	95.7
≥ 600	17.4	80.9	85.0	89.2	91.3	92.1	93.5	95.0	95.0	96.0	96.2	96.3	96.4	96.5	96.6	96.7
≥ 500	17.4	81.0	85.8	89.4	91.8	92.8	94.3	96.0	96.0	97.1	97.3	97.4	97.6	97.7	97.8	97.8
≥ 400	17.4	81.1	86.0	89.5	91.9	93.0	94.6	96.5	96.5	97.7	97.8	98.1	98.3	98.3	98.4	98.4
≥ 300	17.4	81.1	86.0	89.5	92.0	93.1	94.7	96.7	96.7	98.1	98.2	98.5	98.8	98.9	99.0	99.1
≥ 200	17.4	81.1	86.0	89.5	92.0	93.1	94.7	96.7	96.7	98.1	98.4	98.7	99.2	99.2	99.3	99.3
≥ 100	17.4	81.1	86.0	89.5	92.0	93.1	94.7	96.7	96.7	98.1	98.4	98.7	99.2	99.3	99.5	99.5
≥ 0	17.4	81.1	86.0	89.5	92.0	93.1	94.7	96.7	96.7	98.1	98.4	98.7	99.2	99.3	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS 17

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
≥ 20000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 18000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 16000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 14000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 12000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 10000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 9000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 8000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 7000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 6000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 5000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 4500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 4000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 3500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 3000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 2500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 2000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 1800	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 1500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 1200	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 1000	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 900	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 800	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 700	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 600	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 500	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 400	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 300	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 200	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 100	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
IV 0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0

TOTAL NUMBER OF OBSERVATIONS

217

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

ASHEVILLE, VA

STATION NAME

1975

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 20000	48.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 18000	44.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 16000	44.7	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 14000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 12000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 10000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 9000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 8000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 7000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 6000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 5000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 4500	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 4000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 3500	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 3000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 2500	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 2000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 1800	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 1500	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 1200	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 1000	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 900	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 800	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 700	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 600	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 500	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 400	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 300	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 200	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 100	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
IV 0	45.2	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	74.1	37.5	21.7	11.5	5.8	3.5	2.5	1.8	1.5	1.2	1.0	0.8	0.6	0.5	0.4	0.3
≥ 20000	74.1	4.3	1.4	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
IV 18000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 16000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 14000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 12000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 10000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 9000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 8000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 7000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 6000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 5000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 4500	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 4000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 3500	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 3000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 2500	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 2000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 1800	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 1500	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 1200	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 1000	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 900	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 800	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 700	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 600	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 500	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 400	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 300	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 200	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 100	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
IV 0	74.1	41.4	41.4	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.0	59.5	4.0	81.5	41.7	41.7	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
≥ 20000	0.0	42.5	44.0	44.4	45.6	45.6	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
IV 18000	0.0	42.5	44.0	44.4	45.6	45.6	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
IV 16000	0.0	42.5	44.0	44.4	45.6	45.6	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3
IV 14000	0.0	43.2	44.0	45.2	46.3	46.3	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 12000	0.0	43.2	44.0	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 10000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 9000	0.0	43.2	51.7	52.1	53.3	53.3	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 8000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 7000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 6000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 5000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 4500	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 4000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 3500	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 3000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 2500	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 2000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 1800	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 1500	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 1200	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 1000	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 900	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 800	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 700	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 600	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 500	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 400	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 300	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 200	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 100	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
IV 0	0.0	43.2	50.0	50.0	51.7	51.7	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTHS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

1  
HOURS (LAST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
≥ 20000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 18000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 16000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 14000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 12000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 10000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 9000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 8000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 7000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 6000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 5000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 4500	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 4000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 3500	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 3000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 2500	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 2000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 1800	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 1500	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 1200	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 1000	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 900	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 800	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 700	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 600	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 500	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 400	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 300	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 200	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 100	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
IV 0	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1

TOTAL NUMBER OF OBSERVATIONS 455

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

05-77

YEARS

PER

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

14  
HOURS (L.S.V.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 4	≥ 3	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/4	≥ 0
NO CEILING	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
≥ 20000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 18000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 16000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 14000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 12000	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6	45.6
IV 10000	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 9000	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
IV 8000	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
IV 7000	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
IV 6000	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
IV 5000	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
IV 4500	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
IV 4000	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
IV 3500	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
IV 3000	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
IV 2500	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
IV 2000	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 1800	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
IV 1500	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 1200	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
IV 1000	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IV 900	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
IV 800	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
IV 700	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
IV 600	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
IV 500	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
IV 400	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
IV 300	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
IV 200	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 100	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
IV 0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

DATE

YEAR

MOON

TIME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	4.0	14.0	41.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
≥ 30000	1.1	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 18000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 16000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 14000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 12000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 10000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 9000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 8000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 7000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 6000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 5000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 4500	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 4000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 3500	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 3000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 2500	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 2000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 1800	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 1500	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 1200	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 1000	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 900	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 800	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 700	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 600	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 500	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 400	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 300	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 200	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 100	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
IV 0	1.0	51.6	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0

TOTAL NUMBER OF OBSERVATIONS 25

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

1773

07-130, 48

6-7-75

01C

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ ¼	≥ 0
NO CEILING	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
≥ 20000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 18000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 16000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 14000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 12000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 10000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 9000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 8000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 7000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 6000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 5000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 4500	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 4000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 3500	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 3000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 2500	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 2000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 1800	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 1500	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 1200	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 1000	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 900	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 800	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 700	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 600	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 500	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 400	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 300	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 200	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 100	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1
IV 0	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1	52.1

TOTAL NUMBER OF OBSERVATIONS

1

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

STATION

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.7	41.5	47.4	47.6	47.2	43.2	43.5	43.6	43.5	43.3	43.6	43.6	43.6	43.6	44.0	44.0
≥ 20000	11.7	45.1	47.7	47.8	48.1	48.2	48.4	48.5	48.5	48.5	48.5	48.5	48.5	48.6	48.6	48.6
≥ 18000	11.7	46.3	47.4	47.7	48.3	48.3	48.6	48.6	48.6	48.6	48.7	48.7	48.7	48.7	48.7	48.7
≥ 16000	11.7	46.7	47.4	47.7	48.3	48.3	48.6	48.6	48.6	48.6	48.7	48.7	48.7	48.7	48.7	48.7
≥ 14000	11.7	46.9	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 12000	11.7	46.9	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 10000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 9000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 8000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 7000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 6000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 5000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 4500	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 4000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 3500	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 3000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 2500	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 2000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 1800	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 1500	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 1200	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 1000	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 900	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 800	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 700	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 600	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 500	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 400	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 300	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 200	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 100	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4
≥ 0	11.7	47.2	47.4	47.8	48.9	48.2	49.2	49.2	49.2	49.3	49.3	49.3	49.3	49.4	49.4	49.4

TOTAL NUMBER OF OBSERVATIONS

1469

DIRNAVOCEANMET

SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

1973

CEILING, VA

60-78

ALL

STATION

STATION NAME

YEARS

MONTHS

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL  
HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	1.0	42.3	47.6	47.8	49.5	50.0	50.5	50.7	50.7	50.9	51.0	51.0	51.0	51.0	51.0	51.0
≥ 20000	1.0	47.3	51.3	53.7	55.7	56.2	56.8	57.0	57.1	57.2	57.3	57.3	57.3	57.3	57.4	57.4
IV 18000	1.0	47.6	51.4	53.9	55.8	56.4	57.0	57.2	57.2	57.4	57.4	57.4	57.5	57.5	57.5	57.5
IV 16000	1.0	47.7	51.4	53.9	55.9	56.4	57.0	57.2	57.2	57.4	57.5	57.5	57.5	57.5	57.6	57.6
IV 14000	1.0	48.1	51.6	54.3	56.2	56.7	57.4	57.6	57.6	57.8	57.9	57.9	57.9	57.9	58.0	58.0
IV 12000	1.0	48.5	52.4	55.9	57.9	58.5	59.1	59.4	59.4	59.6	59.6	59.6	59.6	59.7	59.7	59.7
IV 10000	1.0	53.9	59.3	61.2	63.8	64.1	64.8	65.1	65.1	65.3	65.3	65.3	65.3	65.4	65.4	65.4
IV 9000	1.0	54.3	59.6	61.5	63.9	64.4	65.2	65.4	65.4	65.6	65.7	65.7	65.7	65.8	65.8	65.8
IV 8000	1.0	58.8	63.0	64.1	66.6	67.2	70.0	70.3	70.3	70.5	70.6	70.6	70.6	70.6	70.7	70.7
IV 7000	1.0	59.3	64.2	67.3	69.8	70.5	71.3	71.5	71.6	71.8	71.8	71.8	71.8	71.9	71.9	71.9
IV 6000	1.0	65.9	68.9	69.1	70.6	71.3	72.1	72.4	72.4	72.6	72.7	72.7	72.7	72.7	72.8	72.8
IV 5000	1.0	62.4	67.5	71.8	71.5	74.2	75.0	75.3	75.3	75.5	75.6	75.6	75.6	75.6	75.7	75.7
IV 4500	1.0	63.7	68.4	71.7	74.4	75.1	76.0	76.3	76.3	76.5	76.6	76.6	76.6	76.6	76.7	76.7
IV 4000	1.0	65.3	71.2	74.8	77.7	78.4	79.3	79.6	79.6	79.9	79.9	79.9	79.9	80.0	80.0	80.1
IV 3500	1.0	66.9	72.5	76.1	79.1	79.6	80.8	81.1	81.1	81.3	81.4	81.4	81.4	81.5	81.5	81.5
IV 3000	1.0	67.2	71.3	79.1	82.4	83.2	84.2	84.6	84.6	84.8	84.9	84.9	85.0	85.0	85.0	85.0
IV 2500	1.0	70.4	75.6	80.6	84.7	84.7	85.9	86.3	86.3	86.6	86.7	86.7	86.7	86.7	86.8	86.8
IV 2000	1.0	71.4	77.8	82.0	85.6	86.6	87.7	88.2	88.2	88.5	88.5	88.5	88.5	88.6	88.7	88.7
IV 1800	1.0	71.4	77.9	82.1	85.7	86.7	87.9	88.3	88.3	88.6	88.7	88.7	88.7	88.8	88.8	88.9
IV 1500	1.0	72.1	71.6	83.7	87.0	88.1	89.3	89.8	89.8	90.2	90.2	90.2	90.2	90.3	90.4	90.4
IV 1200	1.0	72.5	71.3	83.8	87.8	89.0	90.3	90.9	90.9	91.3	91.3	91.4	91.4	91.5	91.5	91.5
IV 1000	1.0	73.1	81.0	84.8	89.1	90.4	91.6	92.6	92.6	93.0	93.1	93.2	93.2	93.3	93.4	93.4
IV 900	1.0	73.2	81.2	85.9	89.4	90.7	92.3	93.3	93.3	93.5	93.6	93.6	93.6	93.8	93.8	93.9
IV 800	1.0	73.4	80.5	85.4	90.0	91.5	93.2	94.0	94.0	94.3	94.6	94.6	94.6	94.7	94.9	94.9
IV 700	1.0	73.6	80.8	85.7	90.4	91.9	93.7	94.6	94.6	95.2	95.4	95.5	95.5	95.7	95.7	95.7
IV 600	1.0	73.7	80.9	86.0	90.7	92.3	94.3	95.2	95.2	95.9	96.2	96.3	96.3	96.4	96.5	96.5
IV 500	1.0	73.8	81.1	86.2	91.1	92.9	95.0	96.1	96.2	97.0	97.3	97.4	97.6	97.7	97.8	97.8
IV 400	1.0	73.9	81.2	86.3	91.3	93.1	95.3	96.5	96.6	97.5	97.9	98.0	98.2	98.4	98.5	98.5
IV 300	1.0	73.9	81.2	86.4	91.3	93.2	95.4	96.7	96.8	97.8	98.3	98.5	98.7	98.9	99.1	99.1
IV 200	1.0	73.9	81.3	86.4	91.3	93.2	95.5	96.8	96.9	98.0	98.5	98.7	99.0	99.2	99.4	99.4
IV 100	1.0	73.9	81.3	86.4	91.3	93.2	95.5	96.8	96.9	98.0	98.5	98.7	99.0	99.3	99.5	99.5
IV 0	1.0	73.9	81.3	86.4	91.3	93.2	95.5	96.8	96.9	98.0	98.5	98.7	99.1	99.3	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS

274

DIRNAVOCEANMET SMOS

## 4

QUANTICO, VA

STATION NAME

50-78

**PERIOD**

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**NAYWEASERVCOM**

STATION

2 APR 1963, VA

STATION NAME

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**PERSON**

52

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
SEP	21	31.7			11.9						11.9	45.1	5.9	227
	22	31.4			11.9						17.3	30.8	5.9	225
	23	14.3			27.1						19.2	30.7	6.5	229
	1	1.5			19.1						22.9	41.6	6.8	253
	11	17.6			20.2						20.1	42.7	6.7	254
	17	14.7			21.1						27.2	41.5	6.9	245
	1	2.3			27.4						16.5	39.8	6.2	273
	12	27.6			19.7						11.9	30.4	5.6	226
TOTALS		21.3			19.7						17.2	41.1	6.3	1913

**NAVWEASERVCOM**

# SKY COVER

173  
STATION

STATION NAME

67-78  
PERIOD

140  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
	1	2.7			15.7						11.2	43.5	5.7	24.0
	24	2.7			15.7						12.5	42.7	5.9	24.0
	27	1.6			10.2						20.0	48.8	6.9	24.0
	30	.5			22.0						25.8	42.6	7.2	24.0
	1	1.6			10.9						25.7	43.8	7.3	24.0
	1	1.7			17.7						27.3	42.8	7.2	27.1
	1	1.1			21.0						27.1	35.0	6.7	27.1
	22	2.7			27.2						14.5	32.3	5.7	24.0
TOTALS		11.5			14.0						20.7	41.7	6.6	24.0

NAVWEASERVCOM

## 4.

DATE: 10/10/60, V.

STATION NAME

C. C. - 74

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STATION NAME

**PERIOD**

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## SKY COVER

QUINCY, VA

STATION NAME

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## REGION

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN		21.2			21.5						22.0	36.7	6.3	21
	01	17.			21.5						21.5	33.1	4.5	234
	02	11.7			24.0						24.5	34.5	6.8	211
	03	.9			12.3						32.4	35.1	7.1	212
	04	6.7			24.-						31.7	37.3	7.3	214
	05	4.5			21.7						31.2	37.7	7.5	247
	06	.7			21.3						24.8	40.7	7.4	226
	07	11.			24.5						24.5	37.2	6.9	212

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

DIRECTION

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.7	7.5	5.2	4.5	41.6	41.1	41.4	41.4	41.4	41.1	41.1	41.0	41.0	41.1	41.1	41.1
≥ 20000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 18000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 16000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 14000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 12000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 10000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 9000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 8000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 7000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 6000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 5000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 4500	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 4000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 3500	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 3000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 2500	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 2000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1800	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1500	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1200	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 1000	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 900	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 800	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 700	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 600	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 500	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 400	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 300	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 200	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 100	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1
IV 0	1.1	47.4	47.7	47.7	47.6	47.4	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1	47.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 20000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 18000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 16000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 14000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 12000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 10000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 9000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 8000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 7000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 6000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 5000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 4500	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 4000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 3500	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 3000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 2500	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 2000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 1800	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 1500	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 1200	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 1000	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 900	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 800	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 700	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 600	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 500	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 400	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 300	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 200	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 100	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
IV 0	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	42.4	47.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4
≥ 20000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 18000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 16000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 14000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 12000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 10000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 9000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 8000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 7000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 6000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 5000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 4500	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 4000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 3500	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 3000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 2500	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 2000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 1800	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 1500	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 1200	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 1000	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 900	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 800	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 700	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 600	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 500	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 400	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 300	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 200	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 100	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
≥ 0	34.7	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION 73

STATION NAME

- 75

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 20000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 18000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 16000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 14000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 12000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 10000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 9000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 8000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 7000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 6000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 5000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 4500	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 4000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 3500	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 3000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 2500	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 2000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 1800	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 1500	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 1200	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 1000	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 900	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 800	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 700	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 600	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 500	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 400	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 300	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 200	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 100	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4
≥ 0	23.7	54.2	57.5	58.0	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4	55.4

TOTAL NUMBER OF OBSERVATIONS

251

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

DATE

YEARS

MONTH

HOURS (L &amp; T)

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	10.7	11.2	11.6	12.0	12.4	12.4	12.7	12.3	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
≥ 20000	10.1	10.1	10.5	10.7	11.3	11.3	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
≥ 18000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 16000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 14000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 12000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 10000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 9000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 8000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 7000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 6000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 5000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 4500	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 4000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 3500	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 3000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 2500	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 2000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 1800	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 1500	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 1200	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 1000	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 900	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 800	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 700	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 600	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 500	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 400	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 300	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 200	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 100	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
≥ 0	10.1	10.7	10.7	11.3	11.7	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1

TOTAL NUMBER OF OBSERVATIONS

24

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

MONTH

DATE

TIME

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
≥ 20000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 18000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 16000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 14000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 12000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 10000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 9000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 8000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 7000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 6000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 5000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 4500	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 4000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 3500	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 3000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 2500	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 2000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 1800	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 1500	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 1200	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 1000	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 900	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 800	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 700	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 600	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 500	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 400	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 300	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 200	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 100	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7
IV 0	43.7	44.2	41.0	45.5	45.6	45.4	45.6	45.6	45.7	45.7	45.7	45.7	45.7	45.7	45.7	45.7

TOTAL NUMBER OF OBSERVATIONS 2007

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

ASHEVILLE, VA

STATION NAME

59-76

YEARS

APR

MONTH

01

HOURS (L & T)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	11.1	11.1	57.2	51.1	62.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
≥ 20000	11.1	2.5	63.7	64.7	67.1	55.1	55.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1	65.1
≥ 18000	11.1	3.5	64.3	65.1	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
≥ 16000	11.1	3.5	64.7	65.6	66.7	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0
≥ 14000	11.1	4.7	66.7	66.6	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
≥ 12000	11.1	6.4	67.7	66.5	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
≥ 10000	11.1	7.2	73.5	74.4	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
≥ 9000	11.1	7.3	74.4	75.2	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
≥ 8000	11.1	7.5	76.5	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
≥ 7000	11.1	7.5	76.6	79.4	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 6000	11.1	7.8	79.4	81.3	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
≥ 5000	11.1	7.9	80.3	81.1	81.8	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
≥ 4500	11.1	7.9	81.7	81.5	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
≥ 4000	11.1	8.2	84.9	86.6	87.1	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
≥ 3500	11.1	8.3	85.7	87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
≥ 3000	11.1	8.5	87.8	89.5	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
≥ 2500	11.1	8.5	88.7	89.9	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
≥ 2000	11.1	8.6	89.7	91.2	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1800	11.1	8.6	89.5	91.2	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
≥ 1500	11.1	8.7	90.3	92.0	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
≥ 1200	11.1	8.7	90.3	92.4	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1000	11.1	8.7	91.3	92.4	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 900	11.1	8.7	91.3	92.4	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 800	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 700	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 600	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 500	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 400	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 300	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 200	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 100	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
≥ 0	11.1	8.7	91.3	93.3	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1

TOTAL NUMBER OF OBSERVATIONS

2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

10000

STATION NAME

5 - 75

YEARS

AP

STATION

STATION NAME

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L &amp; Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	5.2	5.7	57.9	6.3	63.7	40.1	60.7	41.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
≥ 20000	5.6	59.8	61.9	64.4	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 18000	5.6	59.8	61.9	64.4	64.7	64.7	64.7	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
IV 16000	5.6	60.2	62.3	64.9	65.3	65.3	65.3	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 14000	5.6	61.1	63.2	65.7	66.1	66.1	66.1	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
IV 12000	10.0	2.3	64.4	67.0	67.0	67.0	67.0	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
IV 10000	11.7	57.8	70.7	73.2	73.6	73.6	73.6	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
IV 9000	11.7	57.8	70.7	73.2	73.6	73.6	73.6	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
IV 8000	11.7	72.0	74.5	77.4	77.8	77.8	77.8	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 7000	11.7	72.0	75.7	78.2	78.7	78.7	78.7	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
IV 6000	11.7	73.2	76.2	78.7	79.1	79.1	79.1	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
IV 5000	11.7	77.0	79.9	82.4	82.9	82.9	82.9	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
IV 4500	11.7	78.2	81.2	83.7	84.1	84.1	84.1	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
IV 4000	11.7	79.1	82.4	85.4	85.8	85.8	85.8	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
IV 3500	11.7	79.9	83.7	86.6	87.5	87.5	87.5	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
IV 3000	12.1	80.3	84.5	87.5	88.3	88.3	88.3	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
IV 2500	12.1	81.2	84.9	87.9	88.7	88.7	88.7	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 2000	12.1	83.3	87.0	90.0	90.8	90.8	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 1800	12.1	83.3	87.0	90.0	90.8	90.8	90.8	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 1500	12.1	83.7	87.5	90.4	91.2	91.2	91.2	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
IV 1200	12.1	83.7	87.9	91.6	92.9	92.9	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 1000	12.1	83.7	87.9	91.6	92.9	92.9	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 900	12.1	83.7	87.9	91.6	92.9	92.9	92.9	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 800	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 700	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 600	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 500	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 400	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 300	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 200	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 100	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
IV 0	12.1	83.7	88.3	92.1	93.7	93.7	93.7	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1

TOTAL NUMBER OF OBSERVATIONS

250

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L S Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	51.7	46.2	47.0	46.9	51.7	1.0	51.0	51.0	51.0	51.0	51.0	51.4	51.4	51.4	51.4	51.7
≥ 20000	51.7	50.2	51.0	54.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.3	56.3	56.3	56.3	56.7
IV 18000	51.7	50.2	51.4	54.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.3	56.3	56.3	56.3	56.7
IV 16000	51.7	50.2	51.4	54.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.3	56.3	56.3	56.3	56.7
IV 14000	51.7	50.2	51.4	54.7	55.9	55.9	55.9	55.9	55.9	55.9	55.9	56.3	56.3	56.3	56.3	56.7
IV 12000	51.7	51.0	50.3	55.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	57.1	57.1	57.1	57.1	57.5
IV 10000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 9000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 8000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 7000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 6000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 5000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 4500	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 4000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 3500	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 3000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 2500	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 2000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 1800	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 1500	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 1200	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 1000	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 900	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 800	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 700	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 600	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 500	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 400	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 300	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 200	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 100	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6
IV 0	51.7	51.3	61.5	63.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	65.2	65.2	65.2	65.2	65.6

TOTAL NUMBER OF OBSERVATIONS

200

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

1973

100, 02

1-78

100

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	57.2	49.3	51.0	51.4	51.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	51.1	51.1	51.1	51.1
≥ 20000	56.7	54.4	55.4	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.5	56.5	56.5	56.5
IVV 18000	56.7	54.4	55.4	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.5	56.5	56.5	56.5
IVV 16000	56.7	54.4	55.4	55.8	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.5	56.5	56.5	56.5
IVV 14000	56.7	54.1	54.2	55.5	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	57.3	57.3	57.3	57.3
IVV 12000	56.1	56.2	57.3	57.6	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.7	58.7	58.7	58.7
IVV 10000	62.5	62.3	63.8	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.9	64.9	64.9	64.9
IVV 9000	62.5	62.3	63.8	63.8	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.9	64.9	64.9	64.9
IVV 8000	67.4	67.4	68.5	68.8	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.9	69.9	69.9	69.9
IVV 7000	68.5	68.5	69.9	71.3	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.4	71.4	71.4	71.4
IVV 6000	71.4	71.4	71.7	71.7	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.7	71.7	71.7	71.7
IVV 5000	72.1	72.1	73.2	73.2	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	75.0	75.0	75.0	75.0
IVV 4500	74.6	74.6	74.6	74.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	76.1	76.1	76.1	76.1
IVV 4000	76.1	76.1	77.2	77.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.7	79.7	79.7	79.7
IVV 3500	77.2	77.2	79.4	79.4	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	81.2	81.2	81.2	81.2
IVV 3000	79.4	79.4	81.5	82.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.9	84.9	84.9	84.9
IVV 2500	81.5	81.5	84.4	85.1	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.7	87.7	87.7	87.7
IVV 2000	82.6	82.6	85.1	85.9	87.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	89.1	89.1	89.1	89.1
IVV 1800	85.1	85.1	85.1	85.9	87.7	88.3	88.3	88.3	88.3	88.3	88.3	88.3	89.1	89.1	89.1	89.1
IVV 1500	87.0	87.0	86.6	86.6	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	89.1	89.1	89.1	89.1
IVV 1200	88.3	88.3	87.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 1000	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 900	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 800	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 700	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 600	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 500	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 400	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 300	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 200	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 100	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IVV 0	89.1	89.1	88.3	88.3	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

000000, 04

STATION NAME

00-70

YEARS

AD

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

17  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1	44.1
IV 20000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 18000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 16000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 14000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 12000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 10000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 9000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 8000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 7000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 6000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 5000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 4500	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 4000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 3500	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 3000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 2500	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 2000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 1800	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 1500	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 1200	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 1000	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 900	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 800	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 700	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 600	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 500	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 400	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 300	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 200	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 100	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
IV 0	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION: 1773 STATION NAME: 1773 YEARS: 15 MONTH: 12

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
≥ 20000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 18000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 14000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 14000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 12000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 10000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 9000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 7000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 6000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 5000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 4500	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 4000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 3500	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 3000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 2500	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 2000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 1800	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 1500	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 1200	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 1000	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 900	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 800	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 700	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 600	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 500	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 400	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 300	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 200	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 100	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
IV 0	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4

TOTAL NUMBER OF OBSERVATIONS 212

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME: STATION: 01-75 YEARS: MONTH: HOURS (L & T):

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	77.7	52.7	5.1	57.7	53.7	13.7	57.7	77.7	17.7	43.7	53.7	53.7	53.7	53.7	53.7	53.7
≥ 20000	1.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
18000	1.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
16000	1.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
14000	1.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
12000	1.1	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
10000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
9000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
8000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
7000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
6000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
5000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
4500	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
4000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
3500	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
3000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
2500	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
2000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
1800	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
1500	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
1200	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
1000	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
900	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
800	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
700	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
600	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
500	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
400	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
300	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
200	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
100	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
0	4.4	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7

TOTAL NUMBER OF OBSERVATIONS: 241

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

2  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	12.0	54.8	57.7	60.1	61.1	62.1	63.1	64.1	65.1	66.1	67.1	68.1	69.1	70.1	71.1	72.1
≥ 20000	13.0	64.7	65.6	66.2	66.8	67.3	67.8	68.3	68.7	69.1	69.5	69.9	70.3	70.7	71.1	71.5
IV 18000	13.0	65.1	65.7	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
IV 16000	13.0	65.1	65.6	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
IV 14000	13.0	65.8	65.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
IV 12000	13.0	67.7	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
IV 10000	13.0	73.1	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 9000	13.0	73.5	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
IV 8000	13.0	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
IV 7000	13.0	79.4	80.3	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 6000	13.0	79.4	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
IV 5000	13.0	81.7	81.9	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
IV 4500	13.0	81.1	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
IV 4000	13.0	84.0	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
IV 3500	13.0	85.1	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
IV 3000	13.0	86.0	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
IV 2500	13.0	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
IV 2000	13.0	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
IV 1800	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 1500	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 1200	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 1000	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 900	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 800	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 700	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 600	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 500	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 400	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 300	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 200	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 100	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
IV 0	13.0	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1

TOTAL NUMBER OF OBSERVATIONS

22

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L S Y)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING																
≥ 20000																
IV 18000																
IV 16000																
IV 14000																
IV 12000																
IV 10000																
IV 9000																
IV 8000																
IV 7000																
IV 6000																
IV 5000																
IV 4500																
IV 4000																
IV 3500																
IV 3000																
IV 2500																
IV 2000																
IV 1800																
IV 1500																
IV 1200																
IV 1000																
IV 900																
IV 800																
IV 700																
IV 600																
IV 500																
IV 400																
IV 300																
IV 200																
IV 100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

ALL

HOURLY (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	56.1	54.7	53.1	51.4	49.4	47.4	45.4	43.4	41.4	39.4	37.4	35.4	33.4	31.4	29.4	27.4
IV 20000	56.1	54.7	53.1	51.4	49.4	47.4	45.4	43.4	41.4	39.4	37.4	35.4	33.4	31.4	29.4	27.4
IV 18000	57.1	55.3	53.7	51.9	49.9	47.9	45.9	43.9	41.9	39.9	37.9	35.9	33.9	31.9	29.9	27.9
IV 16000	57.2	55.4	53.8	52.0	50.0	48.0	46.0	44.0	42.0	40.0	38.0	36.0	34.0	32.0	30.0	28.0
IV 14000	58.2	56.4	54.8	53.0	51.0	49.0	47.0	45.0	43.0	41.0	39.0	37.0	35.0	33.0	31.0	29.0
IV 12000	59.2	57.4	55.8	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0	38.0	36.0	34.0	32.0	30.0
IV 10000	60.2	58.4	56.8	55.0	53.0	51.0	49.0	47.0	45.0	43.0	41.0	39.0	37.0	35.0	33.0	31.0
IV 9000	61.2	59.4	57.8	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0	38.0	36.0	34.0	32.0
IV 8000	62.2	60.4	58.8	57.0	55.0	53.0	51.0	49.0	47.0	45.0	43.0	41.0	39.0	37.0	35.0	33.0
IV 7000	63.2	61.4	59.8	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0	38.0	36.0	34.0
IV 6000	64.2	62.4	60.8	59.0	57.0	55.0	53.0	51.0	49.0	47.0	45.0	43.0	41.0	39.0	37.0	35.0
IV 5000	65.2	63.4	61.8	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0	38.0	36.0
IV 4500	66.2	64.4	62.8	61.0	59.0	57.0	55.0	53.0	51.0	49.0	47.0	45.0	43.0	41.0	39.0	37.0
IV 4000	67.2	65.4	63.8	62.0	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0	38.0
IV 3500	68.2	66.4	64.8	63.0	61.0	59.0	57.0	55.0	53.0	51.0	49.0	47.0	45.0	43.0	41.0	39.0
IV 3000	69.2	67.4	65.8	64.0	62.0	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0	40.0
IV 2500	70.2	68.4	66.8	65.0	63.0	61.0	59.0	57.0	55.0	53.0	51.0	49.0	47.0	45.0	43.0	41.0
IV 2000	71.2	69.4	67.8	66.0	64.0	62.0	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0	42.0
IV 1800	72.2	70.4	68.8	67.0	65.0	63.0	61.0	59.0	57.0	55.0	53.0	51.0	49.0	47.0	45.0	43.0
IV 1500	73.2	71.4	69.8	68.0	66.0	64.0	62.0	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0	44.0
IV 1200	74.2	72.4	70.8	69.0	67.0	65.0	63.0	61.0	59.0	57.0	55.0	53.0	51.0	49.0	47.0	45.0
IV 1000	75.2	73.4	71.8	70.0	68.0	66.0	64.0	62.0	60.0	58.0	56.0	54.0	52.0	50.0	48.0	46.0
IV 900	76.2	74.4	72.8	71.0	69.0	67.0	65.0	63.0	61.0	59.0	57.0	55.0	53.0	51.0	49.0	47.0
IV 800	77.2	75.4	73.8	72.0	70.0	68.0	66.0	64.0	62.0	60.0	58.0	56.0	54.0	52.0	50.0	48.0
IV 700	78.2	76.4	74.8	73.0	71.0	69.0	67.0	65.0	63.0	61.0	59.0	57.0	55.0	53.0	51.0	49.0
IV 600	79.2	77.4	75.8	74.0	72.0	70.0	68.0	66.0	64.0	62.0	60.0	58.0	56.0	54.0	52.0	50.0
IV 500	80.2	78.4	76.8	75.0	73.0	71.0	69.0	67.0	65.0	63.0	61.0	59.0	57.0	55.0	53.0	51.0
IV 400	81.2	79.4	77.8	76.0	74.0	72.0	70.0	68.0	66.0	64.0	62.0	60.0	58.0	56.0	54.0	52.0
IV 300	82.2	80.4	78.8	77.0	75.0	73.0	71.0	69.0	67.0	65.0	63.0	61.0	59.0	57.0	55.0	53.0
IV 200	83.2	81.4	79.8	78.0	76.0	74.0	72.0	70.0	68.0	66.0	64.0	62.0	60.0	58.0	56.0	54.0
IV 100	84.2	82.4	80.8	79.0	77.0	75.0	73.0	71.0	69.0	67.0	65.0	63.0	61.0	59.0	57.0	55.0
IV 0	85.2	83.4	81.8	80.0	78.0	76.0	74.0	72.0	70.0	68.0	66.0	64.0	62.0	60.0	58.0	56.0

TOTAL NUMBER OF OBSERVATIONS

701

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	1.0	31.7	51.1	65.6	75.1	81.4	85.7	88.2	89.5	90.2	90.5	90.7	90.8	90.9	91.0	91.1
IV 20000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 18000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 16000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 14000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 12000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 10000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 9000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 8000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 7000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 6000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 5000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 4500	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 4000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 3500	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 3000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 2500	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 2000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 1800	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 1500	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 1200	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 1000	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 900	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 800	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 700	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 600	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 500	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 400	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 300	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 200	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 100	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8
IV 0	1.0	15.1	20.3	26.2	32.3	37.2	41.1	44.5	46.5	48.2	49.5	50.7	51.5	52.0	52.5	52.8

TOTAL NUMBER OF OBSERVATIONS

211

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME: ASHEVILLE, NC STATION: 76 YEAR: 1949 MONTH: MAY

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅜	≥ ⅜/16	≥ 0
NO CEILING	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
≥ 20000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 18000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 14000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 10000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 9000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 8000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 7000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 6000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 5000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 4500	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 4000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 3500	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 3000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 2500	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 2000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 1800	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 1500	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 1200	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 1000	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 900	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 800	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 700	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 600	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 500	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 400	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 300	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 200	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 100	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
IV 0	43.1	52.4	55.3	56.1	56.9	58.5	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0

TOTAL NUMBER OF OBSERVATIONS 246

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

10773

D. A. TICE, VA

4-78

44Y

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L S T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8
NO CEILING	15.4	42.7	47.7	47.7	45.1	40.8	52.7	53.7	57.0	5.0	53.0	53.0	51.0	53.4	57.4
≥ 20000	15.0	45.2	45.5	40.5	52.7	53.7	54.5	55.9	55.9	55.9	55.9	55.9	55.9	56.0	56.2
≥ 18000	16.4	45.6	50.2	50.9	52.8	54.1	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.6	56.6
≥ 16000	16.4	45.6	5.0	50.9	52.8	54.1	55.9	56.2	56.2	56.2	56.2	56.2	56.2	56.6	56.6
≥ 14000	16.7	45.9	5.5	51.3	52.9	54.5	56.2	56.6	56.6	56.6	56.6	56.6	56.6	56.9	56.9
≥ 12000	17.1	47.7	52.3	53.0	54.5	56.2	58.0	58.4	58.4	58.4	58.4	58.4	58.4	58.7	58.7
≥ 10000	1.0	50.3	54.5	57.7	59.1	60.7	63.0	63.4	63.4	63.4	63.4	63.4	63.4	63.7	63.7
≥ 9000	1.0	53.7	57.7	58.4	59.8	61.6	64.1	64.4	64.4	64.4	64.4	64.4	64.4	64.8	64.8
≥ 8000	1.0	56.2	61.2	61.9	62.4	65.1	68.0	68.3	68.3	68.3	68.3	68.3	68.3	68.7	68.7
≥ 7000	1.0	57.7	62.6	63.4	63.1	66.9	69.8	70.1	70.1	70.1	70.1	70.1	70.1	70.5	70.5
≥ 6000	1.0	57.7	63.7	64.4	66.2	68.8	70.8	71.2	71.2	71.2	71.2	71.2	71.2	71.5	71.5
≥ 5000	2.0	60.1	65.5	66.2	68.5	69.8	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.7	73.7
≥ 4500	21.4	61.2	66.6	67.3	69.1	71.2	74.4	74.7	74.7	74.7	74.7	74.7	74.7	75.1	75.1
≥ 4000	21.0	61.2	67.3	68.0	70.1	72.2	75.4	75.9	75.9	75.9	75.9	75.9	75.9	76.2	76.2
≥ 3500	21.0	61.2	67.3	68.0	70.5	72.6	75.8	76.2	76.2	76.2	76.2	76.2	76.2	76.5	76.5
≥ 3000	21.7	62.6	68.7	69.4	71.7	75.8	79.4	79.7	79.7	79.7	79.7	79.7	79.7	80.1	80.1
≥ 2500	22.1	64.1	70.1	71.2	74.7	77.6	81.1	81.5	81.5	81.5	81.5	81.5	81.5	81.9	81.9
≥ 2000	22.4	65.5	71.9	73.0	76.5	79.4	83.3	83.6	83.6	83.6	83.6	83.6	83.6	84.0	84.0
≥ 1800	22.4	65.5	71.9	73.0	76.5	79.4	83.3	83.6	83.6	83.6	83.6	83.6	83.6	84.0	84.0
≥ 1500	22.4	66.7	73.7	74.7	78.7	81.9	85.8	86.1	86.1	86.1	86.1	86.1	86.1	86.5	86.5
≥ 1200	22.4	69.0	75.3	77.2	81.1	84.3	88.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
≥ 1000	22.4	69.0	75.3	77.2	81.5	84.7	89.3	89.7	89.7	89.7	89.7	89.7	89.7	90.0	90.0
≥ 900	22.4	69.0	75.3	77.2	81.9	85.1	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.4	90.4
≥ 800	22.4	69.4	76.2	77.6	82.2	85.4	90.4	90.8	90.8	90.8	90.8	90.8	90.8	91.1	91.1
≥ 700	22.4	69.4	76.5	77.9	82.6	86.5	91.8	92.2	92.2	92.2	92.2	92.2	92.2	92.5	92.5
≥ 600	22.4	69.4	77.2	78.7	83.3	87.5	93.6	94.0	94.0	94.0	94.0	94.0	94.0	94.3	94.3
≥ 500	22.4	69.8	77.9	79.4	84.7	89.4	96.4	97.2	97.2	97.2	97.2	97.2	97.2	97.9	97.9
≥ 400	22.4	69.8	78.3	79.7	85.4	91.1	97.5	98.6	98.6	98.6	98.6	98.6	98.6	99.3	99.3
≥ 300	22.4	70.1	78.7	80.1	85.8	91.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	99.6	99.6
≥ 200	22.4	70.1	78.7	80.1	85.8	91.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	99.6	99.6
≥ 100	22.4	70.1	78.7	80.1	85.8	91.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	99.6	99.6
≥ 0	22.4	70.1	78.7	80.1	85.8	91.5	97.9	98.9	98.9	98.9	98.9	98.9	98.9	99.6	99.6

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

- 78

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (L &amp; T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 20000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 18000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 16000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 14000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 12000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 10000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 9000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 8000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 7000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 6000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 5000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 4000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 3000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 2000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 1000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 900	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 800	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 700	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 600	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 500	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 400	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 300	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
IV 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS

200

DIRNAVOCEANMET

SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

QUANTICO, VA

STATION NAME

1978

YEARS

MAY

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)13  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
≥ 20000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 18000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 16000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 14000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 12000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 10000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 9000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 8000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 7000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 6000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 5000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 4500	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 4000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 3500	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 3000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 2500	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 2000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 1800	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 1500	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 1200	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 1000	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 900	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 800	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 700	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 600	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 500	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 400	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 300	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 200	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 100	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
IV 0	100.0	40.0	41.0	42.4	43.7	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
≥ 20000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 18000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 16000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 14000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 12000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 10000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 9000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 8000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 7000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 6000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 5000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 4500	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 4000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 3500	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 3000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 2500	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 2000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 1800	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 1500	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 1200	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 1000	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 900	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 800	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 700	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 600	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 500	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 400	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 300	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 200	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 100	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3
IV 0	72.4	46.4	47.2	46.9	46.5	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3	43.3

TOTAL NUMBER OF OBSERVATIONS

252

DIRNAVOCEANMET

SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7	44.7
≥ 20000	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 18000	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 16000	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 14000	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 12000	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
≥ 10000	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 9000	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
≥ 8000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 7000	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
≥ 6000	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
≥ 5000	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
≥ 4500	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
≥ 4000	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0
≥ 3500	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
≥ 3000	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
≥ 2500	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
≥ 2000	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1800	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1600	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1400	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
≥ 1200	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
≥ 1000	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 900	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
≥ 800	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6	96.6
≥ 700	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
≥ 600	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
≥ 500	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 400	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
≥ 300	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
≥ 200	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 100	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
≥ 0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	½	¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
≥ 20000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 18000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 16000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 14000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 12000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 10000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 9000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 8000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 7000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 6000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 5000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 4500	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 4000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 3500	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 3000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 2500	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 2000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 1800	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 1500	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 1200	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 1000	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 900	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 800	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 700	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 600	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 500	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 400	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 300	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 200	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 100	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
IV 0	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1

TOTAL NUMBER OF OBSERVATIONS

271

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME: ASHEVILLE, VA      YEAR: 67-78      MONTH: ALL  
 PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 3 1/4	≥ 3	≥ 1 1/4	≥ 1 1/4	≥ 1	≥ 3/4	≥ 3/4	≥ 3/4	≥ 5/16	≥ 1/4	≥ 0
NO CEILING	1.0	44.2	47.4	44.5	40.5	40.2	57.7	11.0	11.1	11.1	11.1	11.1	11.1	11.2	11.2	11.1
≥ 20000	1.0	46.9	52.0	53.5	54.7	55.3	55.3	56.1	56.1	55.2	56.2	56.2	56.2	56.2	56.3	56.7
IV 18000	15.7	47.0	52.0	53.5	54.6	55.3	55.9	56.1	56.1	55.2	56.2	56.2	56.2	56.3	56.3	56.7
IV 16000	15.7	49.0	52.0	53.5	54.6	55.3	55.9	56.1	56.1	55.2	56.2	56.2	56.2	56.3	56.3	56.7
IV 14000	15.7	49.2	52.6	53.5	54.9	55.5	56.2	56.4	56.4	56.0	56.5	56.5	56.5	56.6	56.6	56.9
IV 12000	15.6	50.0	54.3	55.4	56.5	57.2	57.8	58.1	58.1	56.2	58.2	58.2	58.2	58.3	58.3	58.3
IV 10000	17.0	54.9	57.7	61.2	61.4	62.3	62.9	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.4	63.4
IV 9000	17.0	55.5	57.5	60.7	62.1	62.7	63.5	63.8	63.9	63.9	63.9	63.9	63.9	63.9	64.0	64.0
IV 8000	17.0	59.5	64.3	65.6	67.1	67.7	68.9	68.9	68.9	69.0	69.0	69.0	69.0	69.0	69.2	69.2
IV 7000	17.1	60.3	67.3	67.6	69.1	68.9	69.7	69.9	69.9	70.0	70.0	70.0	70.0	70.2	70.2	70.2
IV 6000	17.0	62.0	66.5	66.0	69.1	70.4	71.2	71.5	71.5	71.6	71.6	71.6	71.6	71.7	71.7	71.7
IV 5000	20.4	64.3	66.1	71.4	72.3	73.2	74.0	74.2	74.2	74.3	74.3	74.3	74.3	74.5	74.5	74.5
IV 4500	20.4	65.1	71.1	71.8	73.5	74.4	75.3	75.5	75.5	75.6	75.6	75.6	75.6	75.8	75.8	75.8
IV 4000	21.9	67.3	72.5	74.5	76.4	77.4	78.3	78.6	78.6	78.7	78.7	78.7	78.7	78.8	78.8	78.8
IV 3500	21.0	66.7	74.1	76.1	76.2	79.2	80.1	80.4	80.4	80.5	80.5	80.5	80.5	80.6	80.6	80.6
IV 3000	22.0	71.0	77.7	79.7	82.3	83.6	84.6	84.9	84.9	85.0	85.0	85.0	85.0	85.2	85.2	85.2
IV 2500	23.0	72.7	77.9	81.0	83.7	85.2	86.3	86.6	86.6	86.7	86.7	86.7	86.7	86.9	86.9	86.9
IV 2000	23.0	74.1	80.2	82.4	85.1	86.9	88.1	88.4	88.4	88.5	88.5	88.5	88.5	88.7	88.8	88.8
IV 1800	23.2	74.1	80.3	82.5	85.3	87.7	88.2	88.5	88.5	88.7	88.7	88.7	88.7	88.9	88.9	88.9
IV 1500	23.2	74.6	81.9	87.3	86.7	88.1	89.4	89.7	89.7	89.9	89.9	89.9	89.9	90.1	90.2	90.2
IV 1200	23.0	75.0	81.6	84.7	87.3	89.3	90.7	91.1	91.1	91.3	91.3	91.3	91.3	91.5	91.5	91.5
IV 1000	23.0	76.2	82.7	85.5	89.1	91.3	92.9	93.5	93.5	93.7	93.7	93.7	93.7	94.0	94.1	94.1
IV 900	23.0	76.2	82.7	85.5	89.1	91.3	92.9	93.5	93.5	93.7	93.7	93.7	93.7	94.0	94.1	94.1
IV 800	23.0	76.6	83.2	86.2	91.2	92.5	94.3	95.1	95.1	95.3	95.3	95.3	95.3	95.6	95.7	95.7
IV 700	23.0	76.7	83.4	86.5	90.6	93.1	94.9	95.8	95.8	96.0	96.0	96.0	96.0	96.1	96.4	96.4
IV 600	23.0	76.7	83.7	86.8	91.0	93.6	95.6	96.4	96.4	96.7	96.7	96.7	96.7	97.0	97.1	97.1
IV 500	23.0	77.0	84.1	87.3	91.9	94.4	96.4	97.9	97.9	98.5	98.5	98.5	98.5	98.7	98.9	98.9
IV 400	23.0	77.1	84.2	87.3	91.8	94.7	97.2	98.5	98.5	99.2	99.2	99.2	99.2	99.3	99.5	99.7
IV 300	23.0	77.2	84.2	87.3	91.9	94.8	97.3	98.6	98.6	99.3	99.3	99.3	99.3	99.6	99.9	99.9
IV 200	23.0	77.2	84.2	87.3	91.9	94.9	97.3	98.6	98.6	99.4	99.4	99.4	99.4	99.7	99.9	99.9
IV 100	23.0	77.3	84.3	87.5	91.9	94.9	97.3	98.6	98.6	99.4	99.4	99.4	99.4	99.8	99.9	99.9
IV 0	23.0	77.2	84.2	87.5	91.9	94.9	97.3	98.6	98.6	99.4	99.4	99.4	99.4	99.9	99.9	99.9

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 3/16	≥ ¼	≥ 0
NO CEILING	2.4	39.5	45.4	46.1	53.8	56.8	55.7	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
≥ 20000	1.0	43.3	45.7	54.3	61.0	60.0	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 18000	1.0	43.3	45.7	54.3	61.0	60.0	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 16000	1.0	43.3	45.7	54.3	61.0	60.0	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 14000	1.0	43.3	45.7	54.3	61.0	60.0	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 12000	1.0	43.3	45.7	54.3	61.0	60.0	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 10000	1.0	43.3	45.7	54.3	61.0	60.0	61.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
IV 9000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 8000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 7000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 6000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 5000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 4500	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 4000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 3500	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 3000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 2500	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 2000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 1800	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 1500	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 1200	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 1000	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 900	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 800	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 700	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 600	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 500	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 400	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 300	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 200	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 100	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
IV 0	1.0	47.1	51.9	55.1	64.4	64.8	67.1	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION  
73

STATION NAME  
ASHEVILLE, VA

YEARS  
75

MONTH

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	2.1	71.0	37.2	43.1	44.5	46.0	52.6	51.1	51.1	52.3	52.3	52.3	52.3	52.3	52.3	52.3
≥ 20000	2.1	76.0	47.1	44.4	55.2	56.1	57.7	58.2	58.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 18000	2.1	76.0	47.1	44.4	55.2	56.1	57.7	58.2	58.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 16000	2.1	76.0	47.1	44.4	55.2	56.1	57.7	58.2	58.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 14000	2.1	76.0	47.1	44.4	55.2	56.1	57.7	58.2	58.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 12000	2.1	77.2	43.5	44.4	55.7	56.5	58.2	58.6	58.6	59.4	59.4	59.4	59.4	59.4	59.4	59.4
≥ 10000	2.1	71.0	44.1	45.2	61.5	62.3	64.0	64.4	64.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 9000	2.1	71.0	44.1	45.2	61.5	62.3	64.0	64.4	64.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7
≥ 8000	2.1	73.5	50.6	55.2	64.9	66.1	67.6	68.2	68.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4
≥ 7000	2.1	74.4	51.0	59.4	66.1	67.4	68.0	69.5	69.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7
≥ 6000	2.1	74.4	52.7	59.9	66.5	67.8	69.5	69.9	69.9	71.1	71.1	71.1	71.1	71.1	71.1	71.1
≥ 5000	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 4500	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 4000	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 3500	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 3000	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 2500	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 2000	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 1800	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 1500	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 1200	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 1000	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 900	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 800	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 700	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 600	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 500	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 400	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 300	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 200	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 100	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9
≥ 0	2.1	77.3	55.7	63.6	70.3	71.0	73.2	73.6	73.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9

TOTAL NUMBER OF OBSERVATIONS 2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)														
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 0
NO CEILING	11.0	32.4	34.5	34.5	46.0	37.3	41.2	49.2	49.5	55.0	56.9	58.0	58.0	71.2	71.2
≥ 20000	11.0	31.3	47.7	49.2	51.2	57.0	54.1	54.1	55.2	55.5	55.5	57.5	55.1	55.1	55.1
IV 18000	11.0	31.7	44.1	47.1	51.5	52.0	53.4	54.5	54.5	55.0	55.9	56.9	56.0	56.0	55.2
IV 16000	11.0	31.7	44.1	49.1	51.5	52.0	53.4	54.5	54.5	55.3	55.3	55.9	56.0	56.0	55.2
IV 14000	11.0	31.7	44.1	47.1	51.5	52.0	53.4	54.5	54.5	55.5	55.5	55.9	56.9	56.9	55.2
IV 12000	11.0	27.8	44.1	49.8	51.5	53.0	54.5	55.5	55.5	56.6	56.6	56.9	56.9	56.9	55.2
IV 10000	11.0	40.5	46.5	54.5	55.5	57.0	59.1	51.5	61.5	51.9	61.3	57.3	57.3	57.3	55.2
IV 9000	12.0	40.5	47.5	54.5	57.6	58.0	59.4	61.2	61.2	62.3	62.6	62.6	62.6	62.6	57.3
IV 8000	13.0	41.5	57.7	62.5	64.4	66.2	69.0	69.8	69.8	70.8	71.2	71.2	71.2	71.2	57.3
IV 7000	13.0	41.5	59.7	64.1	65.4	67.1	69.8	71.5	71.5	72.6	73.0	73.0	73.0	73.0	57.3
IV 6000	13.0	41.5	59.7	64.1	65.4	67.6	69.8	71.5	71.5	72.6	73.0	73.0	73.0	73.0	57.3
IV 5000	13.0	41.5	61.7	66.6	67.7	70.1	72.2	74.1	74.1	75.1	75.4	75.4	75.4	75.4	57.3
IV 4500	13.0	41.5	61.7	66.6	67.7	70.1	72.2	74.1	74.1	75.1	75.4	75.4	75.4	75.4	57.3
IV 4000	13.0	41.5	61.7	66.6	67.7	70.1	72.2	74.1	74.1	75.1	75.4	75.4	75.4	75.4	57.3
IV 3500	13.0	41.5	61.7	66.6	67.7	70.1	72.2	74.1	74.1	75.1	75.4	75.4	75.4	75.4	57.3
IV 3000	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 2500	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 2000	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 1800	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 1500	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 1200	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 1000	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 900	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 800	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 700	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 600	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 500	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 400	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 300	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 200	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 100	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3
IV 0	14.0	43.7	64.4	70.1	72.1	74.7	77.2	79.1	79.1	80.1	80.4	80.4	80.4	80.4	57.3

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	77.1	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0
≥ 20000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 18000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 16000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 14000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 12000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 10000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 9000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 8000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 7000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 6000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 5000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 4500	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 4000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 3500	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 3000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 2500	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 2000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 1800	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 1500	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 1200	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 1000	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 900	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 800	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 700	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 600	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 500	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 400	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 300	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 200	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 100	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0
IV 0	41.1	37.1	34.1	31.1	28.1	25.1	22.1	19.1	16.1	13.1	10.1	7.1	4.1	1.1	0	0

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	14.0	12.0	4.0	1.1	0.6	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
≥ 20000	1.0	1.0	4.0	1.4	3.0	14.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 18000	1.0	4.0	4.0	1.4	5.0	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
IV 16000	1.0	4.0	4.0	1.6	54.2	54.6	54.4	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
IV 14000	1.0	4.0	50.4	52.2	55.6	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
IV 12000	1.0	4.0	51.4	54.2	56.7	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
IV 10000	1.0	11.0	50.7	52.0	52.3	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7	52.7
IV 9000	1.0	12.1	51.4	52.5	53.0	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
IV 8000	1.0	54.8	60.0	61.1	62.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
IV 7000	1.0	57.3	65.0	67.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
IV 6000	1.0	60.0	61.0	65.2	69.7	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
IV 5000	1.0	59.2	60.5	64.4	70.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 4500	1.0	58.0	57.0	60.4	70.0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
IV 4000	1.0	60.1	60.6	71.0	71.4	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 3500	1.0	60.4	60.6	70.5	72.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
IV 3000	1.0	71.1	71.0	70.6	81.7	86.6	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
IV 2500	1.0	73.2	80.6	85.9	89.2	90.1	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
IV 2000	1.0	74.7	81.8	87.0	92.6	93.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 1800	1.0	74.7	81.8	87.0	92.6	93.0	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 1500	1.0	75.4	81.8	87.1	93.7	94.0	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
IV 1200	1.0	75.4	81.8	87.4	94.0	94.4	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
IV 1000	1.0	75.1	84.5	90.5	95.0	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 900	1.0	75.1	84.5	90.5	95.0	96.5	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 800	1.0	76.1	80.0	90.0	95.1	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 700	1.0	76.4	84.7	91.2	95.5	97.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
IV 600	1.0	76.4	84.0	91.2	95.5	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 500	1.0	76.4	84.0	91.2	95.5	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 400	1.0	76.4	84.0	91.2	95.5	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 300	1.0	76.4	84.0	91.2	95.5	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 200	1.0	76.4	84.0	91.2	95.5	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 100	1.0	76.4	84.0	91.2	95.5	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
IV 0	1.0	76.4	84.0	91.2	95.5	97.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	45.7	47.4	51.4	55.4	53.4	53.7	53.9	53.9	53.7	53.9	53.9	53.9	53.9	53.9	53.9	53.9
≥ 20000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 18000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 16000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 14000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 12000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 10000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 9000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 8000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 7000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 6000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 5000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 4500	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 4000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 3500	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 3000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 2500	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 2000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 1800	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 1500	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 1200	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 1000	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 900	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 800	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 700	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 600	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 500	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 400	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 300	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 200	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 100	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
IV 0	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 3/8	≥ 0
NO CEILING	1.4	41.4	4.7	4.0	47.0	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4
≥ 20000	1.4	42.7	5.2	37.5	46.2	7.3	59.3	50.7	53.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7
IV 18000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 16000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 14000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 12000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 10000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 9000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 8000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 7000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 6000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 5000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 4500	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 4000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 3500	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 3000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 2500	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 2000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 1800	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 1500	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 1200	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 1000	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 900	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 800	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 700	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 600	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 500	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 400	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 300	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 200	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 100	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
IV 0	1.4	43.1	5.6	34.7	37.7	49.7	59.7	40.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION: 1773 STATION NAME: ASHEVILLE, NC YEARS: 65-76 MONTH: 12 HOURS (LST): 12

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 20000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 18000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 16000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 14000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 12000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 10000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 9000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 8000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 7000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 6000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 5000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 4500	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 4000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 3500	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 3000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 2500	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 2000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 1800	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 1500	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 1200	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 1000	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 900	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 800	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 700	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 600	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 500	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 400	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 300	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 200	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 100	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
IV 0	44.3	47.3	47.2	50.7	50.9	51.1	52.6	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8

TOTAL NUMBER OF OBSERVATIONS 12

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

1973

ASHEVILLE, NC

1 - 78

JUN

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

ALL

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 5/16	≥ 1/8	≥ 0
NO CEILING	0.0	78.4	47.3	47.0	42.8	30.1	30.8	21.3	21.3	21.6	21.4	21.6	21.4	21.6	21.6	21.6
≥ 20000	12.4	43.7	45.2	43.3	36.3	36.7	27.5	28.0	29.0	28.3	27.4	26.4	28.4	28.4	28.4	28.4
IV 18000	12.4	44.1	45.3	43.4	36.4	36.8	27.6	28.1	28.1	28.4	28.5	28.5	28.5	28.5	28.5	28.5
IV 14000	12.4	44.1	45.4	43.5	36.4	36.9	27.7	28.1	28.1	28.5	28.5	28.5	28.5	28.5	28.5	28.5
IV 10000	12.4	44.5	45.5	44.1	37.7	37.5	28.3	28.7	28.7	29.1	29.1	29.1	29.1	29.1	29.1	29.1
IV 8000	12.4	45.2	45.7	44.0	37.7	38.4	29.2	29.7	29.7	30.1	30.1	30.1	30.1	30.1	30.1	30.1
IV 6000	12.4	45.8	46.2	44.2	38.4	38.9	29.7	30.3	30.3	30.7	30.7	30.7	30.7	30.7	30.7	30.7
IV 4000	12.4	46.7	47.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 3000	12.4	47.7	48.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 2500	12.4	48.7	49.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 2000	12.4	49.7	49.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 1800	12.4	50.7	50.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 1600	12.4	51.7	51.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 1400	12.4	52.7	52.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 1200	12.4	53.7	53.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 1000	12.4	54.7	54.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 900	12.4	55.7	55.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 800	12.4	56.7	56.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 700	12.4	57.7	57.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 600	12.4	58.7	58.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 500	12.4	59.7	59.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 400	12.4	60.7	60.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 300	12.4	61.7	61.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 200	12.4	62.7	62.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 100	12.4	63.7	63.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9
IV 0	12.4	64.7	64.0	44.3	38.7	39.1	29.7	30.5	30.5	30.9	30.9	30.9	30.9	30.9	30.9	30.9

TOTAL NUMBER OF OBSERVATIONS

1201

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

STATION

STATION NAME

54-76

YEARS

JUL

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

01

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	•	71.7	37.2	43.1	47.7	49.5	51.0	51.2	51.2	54.1	54.1	54.1	54.1	54.1	54.1	54.1
IV 20000	•	34.4	41.7	47.7	51.7	55.5	58.3	60.6	60.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 18000	•	34.4	41.7	47.7	51.7	55.5	58.3	60.6	60.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 16000	•	34.4	41.7	47.7	51.7	55.5	58.3	60.6	60.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 14000	•	34.4	41.7	47.7	51.7	55.5	58.3	60.6	60.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9
IV 12000	•	37.2	41.7	51.4	57.3	59.2	61.9	64.2	64.2	65.6	65.6	65.6	65.6	65.6	65.6	65.6
IV 10000	•	40.6	50.9	56.3	59.5	60.4	72.0	74.3	74.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 9000	•	40.6	50.9	56.3	59.5	60.4	72.0	74.3	74.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7
IV 8000	•	41.7	53.2	60.6	69.3	71.1	74.8	77.1	77.1	78.4	78.4	78.4	78.4	78.4	78.4	78.4
IV 7000	•	42.2	54.1	61.5	70.2	72.0	75.7	78.0	78.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 6000	•	42.2	54.1	61.5	70.2	72.0	75.7	78.0	78.0	79.4	79.4	79.4	79.4	79.4	79.4	79.4
IV 5000	•	43.1	55.1	63.3	72.5	74.3	78.4	81.2	81.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6
IV 4500	•	43.6	55.6	63.6	72.9	74.8	78.9	81.7	81.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0
IV 4000	•	45.4	54.3	67.0	76.2	79.4	83.0	85.8	85.8	87.2	87.2	87.2	87.2	87.2	87.2	87.2
IV 3500	•	45.4	55.7	67.4	77.5	79.8	84.4	87.2	87.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5
IV 3000	•	46.8	51.5	71.2	80.7	82.6	87.2	89.9	89.9	91.3	91.3	91.3	91.3	91.3	91.3	91.3
IV 2500	•	47.7	61.9	71.6	81.2	83.5	88.1	90.8	90.8	92.2	92.2	92.2	92.2	92.2	92.2	92.2
IV 2000	•	47.7	62.8	72.9	84.4	86.7	91.3	94.0	94.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1800	•	47.7	62.8	72.9	84.4	86.7	91.3	94.0	94.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1500	•	48.2	67.3	73.4	84.5	87.2	91.7	94.5	94.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 1200	•	48.2	67.3	73.4	84.5	87.2	91.7	94.5	94.5	95.9	95.9	95.9	95.9	95.9	95.9	95.9
IV 1000	•	48.6	65.1	75.2	86.7	89.5	94.0	96.8	96.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 900	•	48.6	65.1	75.2	86.7	89.5	94.0	96.8	96.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 800	•	48.6	65.1	75.2	86.7	89.5	94.0	96.8	96.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2
IV 700	•	49.1	65.6	75.7	87.2	89.9	94.5	97.3	97.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 600	•	49.1	65.6	75.7	87.2	89.9	94.5	97.3	97.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 500	•	49.1	65.6	75.7	87.2	89.9	94.5	97.3	97.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 400	•	49.1	65.6	75.7	87.2	89.9	94.5	97.3	97.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 300	•	49.1	65.6	75.7	87.2	89.9	94.5	97.3	97.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 200	•	49.1	65.6	75.7	87.2	89.9	94.5	97.3	97.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 100	•	49.1	65.6	75.7	87.2	89.9	94.5	97.3	97.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6
IV 0	•	49.1	65.6	75.7	87.2	89.9	94.5	97.3	97.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

017100, VA

STATION NAME

4-70

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	64.6	34.3	43.9	44.1	40.6	52.7	33.5	53.5	54.7	55.1	55.1	55.1	55.1	55.1	55.1	55.1
≥ 20000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 18000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 16000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 14000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 12000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 10000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 9000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 8000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 7000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 6000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 5000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 4500	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 4000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 3500	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 3000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 2500	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 2000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 1800	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 1500	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 1200	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 1000	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 900	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 800	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 700	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 600	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 500	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 400	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 300	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 200	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 100	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5
IV 0	47.8	41.2	44.8	55.9	59.2	61.6	62.5	62.5	63.7	64.1	64.1	64.5	64.5	64.5	64.5	64.5

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

69-76

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

07  
HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	7.7	7.5	37.6	39.7	46.0	49.7	52.1	53.2	53.7	53.6	53.9	53.9	53.9	53.9	53.9	53.9
≥ 20000	7.9	73.7	41.8	44.3	52.1	55.0	57.5	58.5	58.5	58.9	59.6	59.6	59.6	59.9	59.9	59.9
IV 18000	8.7	34.1	42.2	44.7	52.5	55.3	57.8	58.9	58.9	59.2	59.9	59.9	59.9	60.3	60.3	60.3
IV 16000	8.7	34.1	42.2	44.7	52.5	55.3	57.8	58.9	58.9	59.2	59.9	59.9	59.9	60.3	60.3	60.3
IV 14000	8.7	34.1	42.2	44.7	52.5	55.3	57.8	58.9	58.9	59.2	59.9	59.9	59.9	60.3	60.3	60.3
IV 12000	8.7	34.1	42.2	44.7	52.5	55.3	57.8	58.9	58.9	59.2	59.9	59.9	59.9	60.3	60.3	60.3
IV 10000	10.3	34.4	42.2	44.7	52.5	55.3	57.8	58.9	58.9	59.2	59.9	59.9	59.9	60.3	60.3	60.3
IV 9000	10.3	34.4	42.2	44.7	52.5	55.3	57.8	58.9	58.9	59.2	59.9	59.9	59.9	60.3	60.3	60.3
IV 8000	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 7000	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 6000	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 5000	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 4500	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 4000	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 3500	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 3000	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 2500	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 2000	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 1800	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 1500	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 1200	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 1000	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 900	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 800	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 700	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 600	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 500	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 400	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 300	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 200	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 100	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6
IV 0	11.7	42.9	51.6	57.8	67.4	71.3	73.8	75.2	75.2	75.5	76.2	76.2	76.2	76.6	76.6	76.6

TOTAL NUMBER OF OBSERVATIONS

2

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION 1073 DATE 10/10/74 STATION NAME -74 YEARS MONTH 11 HOUSE (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.0	34.8	42.0	44.8	41.0	43.5	55.2	41.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
≥ 20000	12.0	43.7	51.0	53.2	50.8	62.2	64.3	61.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 18000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 16000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 14000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 12000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 10000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 9000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 8000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 7000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 6000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 5000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 4500	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 4000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 3500	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 3000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 2500	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 2000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 1800	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 1500	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 1200	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 1000	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 900	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 800	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 700	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 600	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 500	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 400	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 300	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 200	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 100	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
IV 0	1.0	44.4	51.1	54.2	61.0	63.3	65.4	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7

TOTAL NUMBER OF OBSERVATIONS 276

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION 71 STATION NAME 67-74 YEARS JUL MONTH 1 HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	11.1	97.2	47.2	46.0	49.9	0.2	50.9	30.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
IV 20000	17.7	44.6	5.1	43.7	57.5	54.3	59.7	50.3	59.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3
IV 18000	17.7	45.3	51.2	54.4	53.8	50.1	57.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
IV 16000	17.7	45.3	51.2	54.4	53.8	50.1	57.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
IV 14000	17.7	45.6	51.5	54.7	58.6	59.5	62.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4	60.4
IV 12000	17.7	47.7	53.7	56.8	61.1	61.2	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
IV 10000	17.7	51.0	50.6	63.5	69.1	69.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 9000	17.7	51.9	50.5	63.5	69.1	69.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
IV 8000	17.7	55.1	60.5	67.4	73.0	73.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
IV 7000	17.7	58.4	62.8	67.7	73.3	74.0	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
IV 6000	17.7	56.7	64.2	69.1	74.7	75.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
IV 5000	17.7	52.3	65.6	70.9	75.5	77.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
IV 4500	17.7	58.6	66.1	71.2	76.8	77.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
IV 4000	17.7	50.7	60.9	74.4	80.6	81.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
IV 3500	17.7	51.8	70.9	75.8	82.0	83.9	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
IV 3000	17.7	54.1	74.0	79.7	87.0	88.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
IV 2500	17.7	55.6	74.7	80.4	88.1	89.5	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
IV 2000	17.7	57.3	74.1	81.4	89.8	91.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
IV 1800	17.7	47.4	74.5	82.1	90.2	91.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
IV 1500	17.7	46.8	77.9	81.5	91.6	93.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
IV 1200	17.7	44.8	70.6	84.2	92.2	94.0	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
IV 1000	17.7	49.1	79.0	84.6	93.7	94.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 900	17.7	49.1	79.0	84.6	93.7	94.7	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
IV 800	17.7	49.1	79.3	84.9	93.7	95.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 700	17.7	49.1	79.3	84.9	93.7	95.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 600	17.7	49.1	79.3	84.9	93.7	95.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
IV 500	17.7	49.1	79.3	84.9	93.7	96.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 400	17.7	49.1	79.3	84.9	93.7	96.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 300	17.7	49.1	79.3	84.9	93.7	96.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 200	17.7	49.1	79.3	84.9	93.7	96.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 100	17.7	49.1	79.3	84.9	93.7	96.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
IV 0	17.7	49.1	79.3	84.9	93.7	96.1	99.3	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION NAME STATION NAME YEARS MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	41.0	44.8	49.4	53.0	54.2	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
IV 20000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 18000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 16000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 14000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 12000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 10000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 9000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 8000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 7000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 6000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 5000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 4500	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 4000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 3500	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 3000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 2500	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 2000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 1800	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 1500	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 1200	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 1000	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 900	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 800	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 700	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 600	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 500	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 400	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 300	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 200	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 100	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
IV 0	48.6	53.4	58.6	63.1	63.1	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7

TOTAL NUMBER OF OBSERVATIONS 247

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING	17.4	77.5	41.1	44.2	86.8	47.7	47.6	47.8	47.8	42.1	42.1	42.1	42.1	42.1	42.1	42.1
≥ 20000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 18000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 16000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 14000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 12000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 10000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 9000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 8000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 7000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 6000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 5000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 4500	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 4000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 3500	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 3000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 2500	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 2000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1800	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1500	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1200	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 1000	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 900	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 800	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 700	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 600	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 500	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 400	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 300	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 200	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 100	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3
IV 0	14.3	42.7	41.1	51.5	55.9	55.8	55.8	55.8	55.8	56.3	56.3	56.3	56.3	56.3	56.3	56.3

TOTAL NUMBER OF OBSERVATIONS

2

DIRNAVOCEANMET SMOS



NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ⅓	≥ 5/16	≥ ¼	≥ 0
NO CEILING	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
≥ 20000	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 18000	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 16000	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 14000	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 12000	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 10000	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 9000	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 8000	•	3.3	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 7000	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 6000	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 5000	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 4500	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 4000	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 3500	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 3000	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 2500	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 2000	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 1800	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 1500	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 1200	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 1000	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 900	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 800	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 700	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 600	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 500	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 400	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 300	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 200	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 100	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
IV 0	1.4	4.1	4.1	4.5	4.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS (L.S.T.)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ ¼	≥ 0
NO CEILING ≥ 20000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 18000 16000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 14000 12000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 10000 9000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 8000 7000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 6000 5000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 4500 4000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 3500 3000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 2500 2000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 1800 1500	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 1200 1000	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 900 800	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 700 600	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 500 400	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 300 200	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
IV 100 0	7.4	7.4	47.4	47.4	47.4	10.4	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)  
QUANTICO VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

SUMMARY OF METEOROLOGICAL OBSERVATIONS CONTINUED  
QUANTICO VIRGINIA(U) NAVAL OCEANOGRAPHY COMMAND  
DETACHMENT ASHEVILLE NC AUG 84

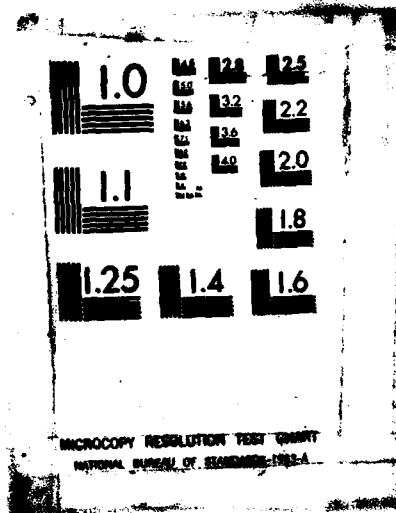
DETACHMENT ASHEVILLE NC AUG 84

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NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

1973

QUANTICO, VA

1975

AUG

STATION

STATION NAME

YEARS

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

01

HOURS (L & T)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	1.4	27.7	37.3	48.9	53.9	58.2	57.6	58.5	58.5	59.3	59.3	59.3	59.3	59.3	59.3	59.3
≥ 30000	1.4	30.0	40.6	51.9	59.5	61.8	64.5	65.4	65.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 18000	1.4	31.1	41.6	53.9	59.7	61.8	64.5	65.4	65.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 16000	1.4	31.1	41.6	53.9	59.7	61.8	64.5	65.4	65.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 14000	1.4	30.0	40.6	53.9	59.7	61.8	64.5	65.4	65.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 12000	1.4	31.1	41.6	53.9	59.7	61.8	64.5	65.4	65.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
≥ 10000	1.4	35.2	47.0	62.2	67.7	70.5	74.2	75.1	75.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 9000	1.4	35.2	47.0	62.2	67.7	70.5	74.2	75.1	75.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 8000	1.4	35.2	47.0	62.2	67.7	70.5	74.2	75.1	75.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5
≥ 7000	1.4	36.4	47.8	65.0	70.5	73.3	77.4	78.0	78.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 6000	1.4	35.2	47.0	65.0	70.5	73.3	77.4	78.0	78.0	80.2	80.2	80.2	80.2	80.2	80.2	80.2
≥ 5000	1.4	37.4	52.1	68.2	74.2	77.0	81.1	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4500	1.4	37.4	52.1	68.2	74.2	77.0	81.1	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 4000	1.4	37.4	52.1	68.2	74.2	77.0	81.1	82.6	82.6	83.9	83.9	83.9	83.9	83.9	83.9	83.9
≥ 3500	1.4	41.5	55.8	73.3	79.7	82.5	86.6	88.0	88.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 3000	1.4	41.5	55.8	73.3	79.7	82.5	86.6	88.0	88.0	89.4	89.4	89.4	89.4	89.4	89.4	89.4
≥ 2500	1.4	42.8	57.1	76.5	83.9	87.1	91.7	93.1	93.1	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 2000	1.4	42.8	57.1	76.5	83.9	87.1	91.7	93.1	93.1	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1800	1.4	42.8	57.1	76.5	83.9	87.1	91.7	93.1	93.1	94.9	94.9	94.9	94.9	94.9	94.9	94.9
≥ 1600	1.4	43.3	59.5	77.9	85.3	88.9	94.0	95.4	95.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1400	1.4	43.3	59.5	77.9	85.3	88.9	94.0	95.4	95.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1200	1.4	43.3	59.5	77.9	85.3	88.9	94.0	95.4	95.4	97.2	97.2	97.2	97.2	97.2	97.2	97.2
≥ 1000	1.4	43.3	60.6	78.8	86.2	89.9	95.4	96.8	96.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 900	1.4	43.3	60.6	78.8	86.2	89.9	95.4	96.8	96.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 800	1.4	43.3	60.6	78.8	86.2	89.9	95.4	96.8	96.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 700	1.4	43.3	60.6	78.8	86.2	89.9	95.4	96.8	96.8	99.1	99.1	99.1	99.1	99.1	99.1	99.1
≥ 600	1.4	43.3	60.6	78.8	86.6	90.3	95.9	97.2	97.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 500	1.4	43.3	60.6	78.8	86.6	90.3	95.9	97.2	97.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 400	1.4	43.3	60.6	78.8	86.6	90.3	95.9	97.2	97.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 300	1.4	43.3	60.6	78.8	86.6	90.3	95.9	97.2	97.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 200	1.4	43.3	60.6	78.8	86.6	90.3	95.9	97.2	97.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 100	1.4	43.3	60.6	78.8	86.6	90.3	95.9	97.2	97.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
≥ 0	1.4	43.3	60.6	78.8	86.6	90.3	95.9	97.2	97.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NUMBER OF OBSERVATIONS

217

DIRNAVOCEANMET SMOS

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

1973  
STATION

QUANTICO, VA  
STATION NAME

69-76  
YEAR

AUS  
MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

DN  
MOVES (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 0	≥ 0
NO CEILING	1.2	26.3	37.3	49.4	57.1	59.9	61.3	61.9	61.9	64.4	64.4	64.4	64.4	64.4	64.4	64.4
≥ 20000	1.2	26.7	41.3	53.9	64.3	67.2	69.2	69.6	69.6	72.1	72.1	72.1	72.1	72.1	72.1	72.1
N 18000	1.2	24.2	41.7	54.3	64.4	67.6	69.6	70.0	70.0	72.5	72.5	72.5	72.5	72.5	72.5	72.5
N 16000	1.2	26.2	41.7	54.3	64.4	67.6	69.6	70.0	70.0	72.5	72.5	72.5	72.5	72.5	72.5	72.5
N 14000	1.2	29.2	41.7	54.3	64.4	67.6	69.6	70.0	70.0	72.5	72.5	72.5	72.5	72.5	72.5	72.5
N 12000	1.2	29.6	42.1	55.1	65.2	68.0	70.0	71.3	71.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7
N 10000	1.2	31.4	45.3	59.9	70.9	74.1	76.4	77.3	77.3	79.8	79.8	79.8	79.8	79.8	79.8	79.8
N 9000	1.2	31.4	45.3	59.9	70.9	74.1	76.4	77.3	77.3	79.8	79.8	79.8	79.8	79.8	79.8	79.8
N 8000	1.2	32.0	46.2	61.9	72.9	76.1	79.8	80.2	80.2	82.6	82.6	82.6	82.6	82.6	82.6	82.6
N 7000	1.2	32.4	46.6	62.8	73.7	76.9	80.6	81.0	81.0	83.4	83.4	83.4	83.4	83.4	83.4	83.4
N 6000	1.2	32.4	46.6	62.8	73.7	76.9	80.6	81.0	81.0	83.4	83.4	83.4	83.4	83.4	83.4	83.4
N 5000	1.2	33.4	47.8	64.4	75.3	78.5	82.6	83.0	83.0	85.4	85.4	85.4	85.4	85.4	85.4	85.4
N 4500	1.2	33.4	47.8	64.4	75.3	78.5	82.6	83.0	83.0	85.4	85.4	85.4	85.4	85.4	85.4	85.4
N 4000	1.2	34.4	47.8	66.4	77.7	81.2	85.0	85.4	85.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8
N 3500	1.2	34.4	49.8	66.8	78.5	81.8	85.8	86.6	86.6	89.1	89.1	89.1	89.1	89.1	89.1	89.1
N 3000	1.2	34.4	51.8	69.2	81.8	85.0	89.1	89.3	89.3	91.7	91.7	91.7	91.7	91.7	91.7	91.7
N 2500	1.2	36.4	51.8	70.0	82.4	85.8	89.9	91.1	91.1	93.5	93.5	93.5	93.5	93.5	93.5	93.5
N 2000	1.2	36.4	52.2	70.8	83.0	86.2	90.3	91.5	91.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9
N 1800	1.2	36.4	52.2	70.8	83.0	86.2	90.3	91.5	91.5	93.9	93.9	93.9	93.9	93.9	93.9	93.9
N 1600	1.2	36.4	52.2	71.8	83.8	87.0	91.1	92.3	92.3	94.7	94.7	94.7	94.7	94.7	94.7	94.7
N 1400	1.2	36.4	52.6	71.3	84.6	87.9	91.9	93.1	93.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6
N 1200	1.2	36.4	52.6	71.7	85.8	89.1	93.1	94.3	94.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7
N 1000	1.2	36.4	52.6	71.7	85.8	89.1	93.1	94.3	94.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7
N 900	1.2	36.4	52.6	71.7	85.8	89.1	93.1	94.3	94.3	96.7	96.7	96.7	96.7	96.7	96.7	96.7
N 800	1.2	37.3	53.0	72.1	86.6	89.9	93.9	95.1	95.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5
N 700	1.2	37.3	53.0	72.5	87.0	90.3	94.7	96.0	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
N 600	1.2	37.3	53.0	72.5	87.0	90.3	94.7	96.0	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
N 500	1.2	37.3	53.0	72.5	87.0	90.3	94.7	96.0	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
N 400	1.2	37.3	53.0	72.5	87.0	90.3	94.7	96.0	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
N 300	1.2	37.3	53.0	72.5	87.0	90.3	94.7	96.0	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
N 200	1.2	37.3	53.0	72.5	87.0	90.3	94.7	96.0	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
N 100	1.2	37.3	53.0	72.5	87.0	90.3	94.7	96.0	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2
N 0	1.2	37.3	53.0	72.5	87.0	90.3	94.7	96.0	96.0	98.2	98.2	98.2	98.2	98.2	98.2	98.2

TOTAL NUMBER OF OBSERVATIONS 247

DIRNAVOCEANMET SMOS

4

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

## CEILING VERSUS VISIBILITY

17773

JANUARY, VA

68-78

AUG

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

77

HOURS (LST)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/16	≥ 1/8	≥ 0
NO CEILING	5.4	28.4	36.6	42.9	47.7	51.6	54.7	55.4	55.6	55.6	55.8	55.8	56.1	56.1	56.1	56.1
≥ 20000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 18000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 14000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 10000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 8000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 6000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 4000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 3000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 2000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 1800	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 1600	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 1400	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 1200	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 1000	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 800	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 600	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 400	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 200	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 100	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0
NV 0	6.3	32.1	40.8	47.7	53.3	57.8	60.6	61.3	61.3	61.7	61.7	61.7	62.0	62.0	62.0	62.0

TOTAL NUMBER OF OBSERVATIONS 247

DIRNAVOCEANMET SMOB

# SKY COVER

1-773

QUANTICO, VA

69-78

ALL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
ALL	ALL	20.0			13.3						17.9	42.9	6.4	2118
JAN		21.3			19.7						17.9	41.1	6.3	1910
FEB		19.6			19.0						20.7	41.7	6.6	2097
MAR		22.6			22.2						22.1	33.1	6.0	2017
APR		16.0			22.0						24.6	33.7	6.5	2057
MAY		10.4			24.3						28.2	37.1	7.0	1981
JUN		12.7			25.1						27.2	35.0	6.7	2018
JUL		21.0			26.8						23.9	26.4	5.9	2048
AUG		17.5			27.6						23.1	31.8	6.1	1923
SEP		27.5			19.8						18.9	33.8	5.7	1910
OCT		22.2			23.2						21.9	32.7	5.9	1794
NOV		16.9			22.1						19.1	42.9	6.7	1869
DEC		19.0			22.4						22.3	34.3	6.3	23742
TOTALS		19.0			22.4						22.3	34.3	6.3	23742

NAYWEASERVCOM



## 44

73

QUANTICO, VA

STATION NAME

69-77

**Figure 1**

DEC

11

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
DEC	01	24.4			17.1						13.9	44.7	6.2	217
	04	24.0			15.7						16.1	44.2	6.3	217
	07	11.0			22.4						28.7	40.9	7.1	237
	10	10.6			22.4						22.4	44.4	7.1	259
	13	4.1			25.2						20.9	45.7	7.2	256
	16	12.7			19.5						22.4	46.1	7.2	241
	19	21.5			18.4						15.8	41.3	6.4	223
	22	23.5			19.8						12.9	43.8	6.1	217
TOTALS		16.6			20.1						19.1	43.9	6.7	1869

**NAYWEASERV.COM**

# SKY COVER

1773 QUANTICO, VA

69-77

NOV

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
NOV	01	37.0			15.4						11.0	39.6	5.1	208
	04	33.7			21.6						10.1	39.6	5.0	209
	07	15.2			29.9						26.8	28.1	6.1	231
	10	19.2			25.9						23.1	36.8	6.5	247
	13	17.0			23.7						32.9	33.3	7.0	249
	16	11.2			25.9						31.0	31.9	6.8	232
	19	23.2			24.2						19.9	32.7	5.8	211
	22	33.2			19.2						18.3	29.3	5.2	208
TOTALS		22.2			23.2						21.9	32.7	5.9	1794

NAVWEASERVCOM

## 84C

**1-773**  
**STATION**

CHANTICO, VA

**STATION NAME**

69-77

**PERIOD**

057

**WATER**

**PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)**

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
003	01	30.2			10.4						10.6	31.8	4.7	217
	04	40.6			10.6						10.5	34.3	4.8	239
	07	21.4			17.1						24.5	37.0	6.4	257
	10	20.5			21.6						21.2	36.7	6.2	259
	13	16.9			22.3						27.3	33.5	6.9	260
	16	19.0			24.9						22.8	33.3	6.1	237
	19	25.4			29.0						17.4	32.1	5.5	224
	22	37.3			14.3						17.1	31.3	5.1	217
TOTALS		27.5			17.8						18.9	33.8	5.7	1910

**NAYWEASERVCOM**

# SKY COVER

1973 QUANTICO, VA

STATION NAME

59-78

PERIOD

SEP

MONTH

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER											MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
		0	1	2	3	4	5	6	7	8	9	10		
01	01	20.1			22.9						18.6	30.5	5.4	210
	04	20.0			24.3						16.2	30.5	5.2	210
	07	18.0			23.7						24.8	33.5	6.3	271
	10	16.5			26.9						25.4	31.2	6.2	279
	13	5.7			35.1						26.5	32.6	6.7	279
	16	9.7			32.0						24.9	32.5	6.5	237
	19	10.3			27.3						24.5	35.9	6.6	221
	22	21.0			27.6						23.4	27.6	5.7	211
TOTALS		17.5			27.6						23.1	31.0	6.1	1923

NAVWEASERVCOM

## 048

**STAYING MAER**

**PERIOD**

100-471

C  
L

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C

## SKY COVER

QUANTICO, VA

69-78

JUL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF TENTHS OF TOTAL SKY COVER										MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.	
		0	1	2	3	4	5	6	7	8	9			10
JAN	01	22.0			12.7						21.1	36.2	6.1	218
	04	25.4			23.7						23.3	32.7	6.1	245
	07	17.6			24.8						29.8	34.8	6.9	212
	10	11.5			27.3						27.6	33.6	6.7	206
	13	0.1			32.6						31.2	30.0	7.2	215
	16	4.8			32.5						33.7	28.9	6.9	220
	19	17.0			25.3						26.4	43.3	7.3	231
	22	17.9			12.8						24.8	36.5	6.3	222
TOTALS		12.7			25.1						27.2	33.0	6.7	2118

**NAYWEASERVCOM**

NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, NC

# CEILING VERSUS VISIBILITY

1773

STATION NAME

60-76

YEARS

440

MONTH

07

HOURS (LST)

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	¾	¾	¾	¾	≥ 5/16	≥ ¼
NO CEILING	17.6	38.6	39.6	41.6	43.2	43.7	43.6	45.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
≥ 20000	22.6	42.6	42.7	46.0	46.7	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
18000	23.2	43.2	44.4	46.4	46.4	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
16000	23.2	43.2	44.4	46.4	48.4	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
14000	23.2	43.2	44.4	46.4	48.4	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
12000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
10000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
9000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
8000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
7000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
6000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
5000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
4500	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
4000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
3500	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
3000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2500	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
2000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
1800	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
1600	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
1400	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
1200	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
1000	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
900	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
800	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
700	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
600	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
500	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
400	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
300	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
200	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
100	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
0	24.0	45.2	46.4	48.4	50.4	50.2	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8

TOTAL NUMBER OF OBSERVATIONS

200

DIRNAVOCEANMET

SMOS

PSYCHROMETRIC



NOCD, Federal Building  
Asheville, N. C.

## PART E PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
  - a. Daily maximum temperature
  - b. Daily minimum temperature
  - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
  - a. Extreme maximum temperature
  - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:
  - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total no. of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma x$ ). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

4. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

5. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.

- a. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.
- b. Table 2 is prepared by month by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

6. Percentage frequency of occurrence of dry-bulb temperature versus wind direction - This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in four degree increments and horizontally by eight wind directions (plus calm).



40

45-76, 78, 87

STATION NAME

**YEARS**

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

MINIMUM

[illegible]

NAVWEASERVCOM

## DAILY TEMPERATURES

YAN

250

TEMP (°F)	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL
55						2.1	5.1	2.7	.3				.9
60					2.1	19.9	36.6	26.0	8.3	.2			7.9
65				2.1	11.3	48.1	74.2	65.5	26.8	2.1	.1		16.5
70			1.3	2.3	30.0	73.1	96.7	90.5	80.7	7.6	.7		30.3
75	.1	.2	2.8	18.6	53.1	92.3	100.0	99.2	75.8	24.1	4.2	.1	39.7
80	1.0	1.3	8.3	33.4	76.7	98.8		100.0	90.8	46.2	10.2	1.0	47.8
85	3.4	4.2	18.0	52.6	91.4	100.0			97.8	69.8	22.0	3.2	55.6
90	8.4	9.9	31.1	75.8	98.4				99.8	87.9	40.2	10.3	63.9
95	17.8	20.4	50.0	92.2	100.0				100.0	96.2	59.1	21.7	71.8
100	33.4	42.6	72.7	98.7						99.4	82.7	40.4	81.1
105	57.8	65.2	89.8	99.9						100.0	94.3	65.9	89.6
110	75.9	82.3	97.2	100.0							98.5	83.4	94.9
115	84.0	92.6	99.4								99.8	94.0	97.9
120	95.3	98.2	100.0								100.0	98.6	99.4
125	98.4	99.7										99.9	99.8
130	99.8	100.0										100.0	100.0
135	100.0												100.0
140													
145													
150													
155													
160													
165													
170													
175													
180													
185													
190													
195													
200													
205													
210													
215													
220													
225													
230													
235													
240													
245													
250													
255													
260													
265													
270													
275													
280													
285													
290													
295													
300													
MEAN	54.9	57.8	49.4	86.1	85.1	73.1	77.7	76.2	69.3	58.7	47.8	37.9	56.5
S.D.	1.610	1.056	1.322	6.797	7.672	6.168	4.463	4.766	7.192	7.820	8.078	8.786	16.927
TOTAL OBS.	954	902	990	954	956	981	984	989	939	981	948	982	11516

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

1-773

QUANTICO, VA

1946-1976 1983-1983

JANUARY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	36.7	2.6	44.5	6.9	71	21.7	1946	28.8	-1.8	12	-11.1	1968
2	35.3	1.8	43.7	6.5	65	18.3	1965	26.9	-2.8	10	-12.2	1968
3	37.8	3.2	46.1	7.8	65	18.3	1951	29.5	-1.4	13	-10.6	1958
4	37.5	3.1	45.4	7.4	72	22.2	1950	29.4	-1.4	18	-7.8	1969*
5	35.3	1.8	43.4	6.3	72	22.2	1950	27.1	-2.7	12	-11.1	1959
6	36.0	2.2	44.2	6.8	73	22.8	1950	27.9	-2.3	6	-14.4	1959
7	36.2	2.3	44.7	7.1	68	20.0	1950	28.2	-2.1	10	-12.2	1968
8	34.0	1.1	41.0	5.0	62	16.7	1965	26.9	-2.8	2	-16.7	1968
9	35.5	1.9	43.1	6.2	65	18.3	1965*	27.9	-2.3	3	-16.1	1970
10	35.6	2.0	44.7	7.1	72	22.2	1950	26.6	-3.0	3	-16.1	1970
11	35.4	1.9	43.9	6.6	72	22.2	1975	27.4	-2.6	8	-13.3	1970*
12	33.5	.8	41.4	5.2	87	31.9	1975*	25.7	-3.5	8	-13.3	1968
13	34.3	1.3	42.3	5.7	64	17.8	1972	26.2	-3.2	11	-11.7	1962
14	35.8	2.1	44.5	6.9	66	18.9	1950	27.2	-2.7	14	-10.0	1964
15	35.5	2.1	44.5	6.9	75	23.9	1952	27.1	-2.7	3	-16.1	1964
16	34.4	1.3	43.4	6.3	72	22.2	1953	25.8	-3.6	3	-16.1	1972
17	33.5	.8	42.5	5.8	61	16.1	1949	24.4	-4.2	6	-14.4	1972*
18	35.0	1.7	42.1	5.6	66	18.9	1951*	26.9	-2.8	-1	-12.3	1957
19	34.7	1.5	43.0	6.1	67	19.4	1951	26.0	-3.3	4	-15.6	1957
20	35.8	2.1	43.9	6.6	68	20.0	1951	27.3	-2.6	11	-11.7	1968
21	35.3	1.8	44.2	6.8	69	20.6	1959	26.4	-3.1	9	-12.8	1970
22	35.3	2.1	45.3	7.4	65	18.3	1967	26.3	-3.2	2	-16.7	1970
23	36.9	2.7	46.5	8.1	74	23.6	1967	27.3	-2.6	5	-15.0	1970
24	35.9	2.2	44.7	7.1	74	23.3	1950	27.2	-2.7	7	-13.9	1963
25	38.1	3.9	47.1	8.4	75	23.9	1950	29.3	-1.5	3	-16.1	1961
26	39.2	4.0	48.5	9.2	80	26.7	1950	29.7	-1.3	0	-17.8	1968
27	37.9	3.3	47.2	8.4	74	23.3	1974	28.5	-1.9	6	-14.4	1961
28	34.7	1.6	44.0	6.7	74	23.3	1949	25.7	-3.5	-5	-20.6	1961
29	35.3	1.8	44.5	6.9	75	23.9	1975	26.0	-3.3	-1	-18.3	1961
30	36.6	2.6	45.0	7.2	72	22.2	1967	28.2	-2.1	10	-12.2	1961
31	33.2	.7	41.9	5.5	67	19.4	1974	24.9	-3.9	4	-15.6	1965*
Monthly	35.7	2.1	44.2	6.8	80	26.7	1950	27.2	-2.7	-5	-20.6	1961

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

13773

QUANTICO, VA

1965-1976 1982-1983

FEBRUARY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	34.1	1.2	42.8	6.0	60	15.6	1967*	25.9	-3.4	0	-17.8	1965
2	34.9	1.4	42.4	5.8	64	20.6	1967	26.8	-2.9	4	-15.6	1971
3	31.9	-0.1	40.6	4.8	27	13.9	1970	23.3	-4.8	1	-17.2	1965
4	33.2	.7	42.1	5.6	65	18.3	1967	24.5	-4.2	0	-17.8	1965
5	34.8	1.6	43.2	6.2	63	17.2	1962	26.3	-3.2	8	-13.3	1965*
6	36.9	2.7	46.0	7.8	60	15.6	1960	27.8	-2.3	6	-14.5	1966
7	36.8	2.7	45.1	7.3	80	15.0	1968	26.6	-1.9	16	-8.9	1962*
8	35.1	1.7	43.6	6.4	65	18.3	1968	26.6	-1.0	11	-11.7	1967
9	35.4	1.9	43.5	6.4	68	20.0	1969	27.0	-2.0	10	-12.2	1967
10	36.4	2.7	45.6	7.6	72	21.1	1969	27.8	-2.5	6	-14.4	1958
11	37.2	2.9	46.5	8.1	65	18.3	1960*	27.7	-2.4	8	-13.3	1958
12	39.7	2.1	45.1	7.3	68	20.0	1961	26.2	-3.2	11	-11.7	1955
13	37.3	2.9	46.4	8.0	70	21.1	1961*	28.2	-2.1	9	-12.8	1967*
14	38.5	3.6	48.4	9.1	70	21.1	1961	28.3	-1.9	8	-13.3	1955
15	38.8	3.8	48.5	9.2	78	25.6	1969	29.4	-1.4	18	-9.4	1963
16	38.4	3.6	47.0	8.3	76	25.0	1969	30.2	-1.0	10	-12.2	1963
17	38.6	3.7	46.9	8.3	77	25.0	1976	30.3	-0.9	5	-13.0	1958
18	38.6	3.7	48.6	9.2	75	23.9	1976	28.2	-2.1	10	-12.2	1958
19	39.3	4.1	47.9	8.8	73	22.8	1961	30.4	-0.9	13	-10.6	1968
20	37.6	3.1	46.5	8.1	72	22.2	1971	28.7	-1.8	14	-10.0	1959
21	37.2	2.9	46.5	8.1	74	23.3	1953	27.9	-2.3	11	-11.7	1968
22	38.6	3.7	48.4	9.1	72	22.2	1974	29.3	-1.8	7	-13.9	1968
23	38.0	3.3	47.9	8.8	62	16.7	1969	28.6	-1.9	6	-14.4	1963
24	39.3	4.1	49.5	9.7	65	18.3	1961	29.0	-1.7	6	-14.4	1967
25	41.2	5.1	51.2	10.7	69	20.6	1976*	30.7	-0.7	13	-10.6	1967
26	41.2	5.1	50.4	10.2	75	23.9	1968	31.8	-0.2	13	-10.6	1970
27	42.0	5.6	52.8	11.6	73	22.8	1976*	31.2	-0.4	12	-11.1	1963
28	43.1	6.2	53.6	12.0	82	27.8	1968	32.6	.3	14	-10.0	1950*
29	43.1	6.2	52.4	11.3	79	26.1	1976	33.9	1.1	22	-5.6	1956
30												
31												
Monthly	37.6	3.1	46.7	8.2	82	27.8	1968	28.4	-2.0	0	-17.8	1965

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

1773

QUANTICO, VA

1945-1976 1982-1983

MARCH

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	41.1	5.1	50.2	10.1	79	26.1	1976	31.9	-0.1	18	-7.8	1947
2	41.1	5.1	50.9	10.5	76	24.8	1972	31.2	-0.1	18	-7.8	1962
3	41.8	5.4	50.9	10.5	72	22.2	1966	32.9	.5	10	-12.2	1950
4	42.4	5.8	52.6	11.4	82	27.8	1983	33.0	.6	13	-10.6	1950
5	43.5	6.4	53.6	12.0	82	27.8	1976	33.7	.9	18	-7.8	1948
6	43.9	6.6	53.9	12.2	82	27.8	1961	32.2	1.0	14	-10.0	1948
7	43.3	6.3	52.7	11.5	79	26.1	1974	34.2	1.2	14	-10.0	1960
8	42.4	5.8	51.5	10.8	73	22.8	1968	32.7	.4	15	-9.4	1960
9	41.1	5.1	51.2	10.7	76	24.8	1968	31.1	-0.5	12	-11.1	1960
10	43.0	6.1	52.2	11.2	75	23.9	1955	33.6	.9	17	-8.3	1950
11	42.9	6.1	52.6	11.4	78	25.6	1967	32.7	.9	8	-13.3	1960
12	43.9	6.6	53.8	11.9	74	23.3	1973	34.7	1.5	17	-8.3	1960
13	44.4	6.9	53.7	12.1	73	22.8	1976	34.7	1.5	18	-7.8	1948
14	45.0	7.2	55.6	13.1	80	26.7	1967	34.8	1.4	17	-8.3	1960
15	46.0	7.8	56.5	13.6	77	25.0	1973	36.1	2.3	22	-5.6	1950
16	45.0	7.2	54.2	12.3	88	31.1	1945	35.4	1.9	21	-6.1	1960
17	46.2	8.8	54.1	12.3	88	31.1	1945	34.3	1.3	22	-5.6	1967
18	42.2	5.7	50.7	10.4	77	25.0	1966	33.9	1.1	17	-8.3	1967
19	45.0	7.2	54.6	12.6	88	31.1	1945	35.5	1.9	12	-11.1	1967
20	46.5	8.1	56.1	13.4	84	28.9	1945	36.9	2.7	23	-5.0	1947
21	47.3	8.5	57.9	14.4	88	31.1	1948	37.0	2.8	14	-10.0	1965
22	47.4	8.6	56.8	13.8	88	31.1	1966	37.8	3.2	23	-5.0	1956
23	48.0	8.9	59.0	15.0	79	26.1	1966	36.7	2.6	25	-3.9	1959
24	48.3	9.1	59.4	15.2	78	25.9	1969	36.7	2.6	25	-3.9	1971
25	47.2	8.4	57.2	14.0	81	27.2	1989	37.2	2.9	25	-3.9	1971
26	46.9	9.4	59.1	15.1	79	26.1	1964	36.4	3.0	25	-3.9	1958
27	49.6	9.8	60.8	16.0	85	29.4	1949	38.3	3.5	20	-6.7	1947
28	50.0	10.0	61.3	16.3	85	29.4	1945	38.0	3.3	22	-5.6	1958
29	50.2	10.1	61.3	16.3	88	31.1	1945	38.8	3.8	24	-4.4	1959
30	50.0	10.0	58.9	14.9	88	31.1	1963	41.1	5.1	27	-2.8	1970
31	48.6	9.2	58.1	14.5	84	28.9	1945	39.2	4.0	21	-6.1	1964
Monthly	45.3	7.4	55.2	12.9	88	31.1	1966	35.9	1.9	8	-13.3	1960

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

1773

QUANTICO, VA

1945-1976

1982-1983

APRIL

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C		
1	51.0	10.6	63.2	17.3	79	26.1	1959	39.0	3.9	25	-3.9	1965	
2	53.8	11.9	65.1	18.4	93	33.9	1963	41.7	5.4	26	-3.3	1966	
3	53.1	11.7	64.7	18.2	92	33.3	1963	41.5	5.3	25	-3.9	1972	
4	51.1	10.6	61.7	16.5	86	30.0	1956	40.5	4.7	28	-2.2	1965*	
5	51.5	10.8	62.4	16.9	84	28.9	1956	40.4	4.7	28	-2.2	1972*	
6	51.5	10.8	60.6	15.9	86	30.0	1947	41.7	5.4	30	-1.1	1963*	
7	51.9	11.0	63.0	17.2	81	27.2	1954	39.8	4.3	28	-2.2	1950*	
8	51.5	10.8	61.5	16.4	88	31.1	1959	41.2	5.1	26	-3.3	1972	
9	51.8	11.0	62.3	16.8	97	32.2	1959	40.7	4.8	26	-3.3	1972	
10	51.7	10.9	63.4	17.4	85	29.4	1955	40.1	4.5	28	-2.2	1972	
11	52.1	11.2	62.8	17.1	81	27.2	1950	41.3	5.2	28	-2.2	1960	
12	53.6	12.0	63.4	17.4	83	28.3	1965	43.7	6.5	32	.0	1976	
13	51.9	11.1	63.2	17.3	87	30.6	1945	40.9	4.9	29	-1.7	1950	
14	55.0	12.8	66.2	19.0	89	31.7	1960	43.5	6.4	24	-4.4	1950	
15	56.0	13.3	67.1	19.5	87	30.6	1947*	44.9	7.2	31	-.6	1953*	
16	56.0	13.3	67.4	19.7	88	31.1	1976	44.7	7.1	30	-1.1	1963*	
17	56.5	13.6	68.5	20.3	90	32.2	1964	44.5	6.9	32	.0	1961	
18	59.2	15.1	70.9	21.6	91	32.8	1964	46.8	8.2	31	-.6	1951*	
19	60.0	15.6	71.2	21.8	92	33.3	1976	48.7	9.3	37	2.8	1953*	
20	59.4	15.2	70.5	21.4	91	32.8	1976	47.7	8.7	31	-.6	1953	
21	59.2	15.1	71.3	21.8	90	32.2	1957	46.8	8.2	31	-.6	1961	
22	60.9	16.1	71.9	22.2	92	33.3	1952	49.7	9.8	31	-.6	1953	
23	61.2	16.2	72.9	22.7	94	34.4	1960	49.4	9.7	33	.6	1968	
24	60.2	15.7	69.9	21.1	92	33.3	1960	50.4	10.2	35	1.7	1951	
25	59.2	15.1	69.5	20.8	91	32.8	1960	48.8	9.2	33	.6	1956	
26	60.4	15.8	71.1	21.7	88	31.1	1960	49.6	9.8	38	3.3	1968	
27	57.4	14.1	67.2	19.6	91	32.8	1957	48.1	8.9	36	2.2	1967	
28	58.0	14.4	68.2	20.1	90	32.2	1963*	48.3	9.1	34	1.1	1966	
29	58.9	14.9	69.4	20.8	92	33.3	1974	48.7	9.3	35	1.7	1967	
30	60.7	15.9	71.4	21.9	91	32.8	1974	50.0	10.0	28	-2.2	1961	
31													
Monthly	55.2	13.2	66.7	19.3	94	34.4	1960	44.8	7.1	24	-4.4	1950	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

1773

QUANTICO, VA

1945-1976

1982-1983

DAY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE		
	° F	° C	° F	° C	° F	° C		° F	° C	° F	° C			
1	61.7	16.6	71.5	21.9	87	30.6	1953*	52.4	11.3	40	4.4	1963		
2	61.5	16.4	72.6	22.6	90	32.2	1954*	50.5	10.3	32	.0	1945		
3	61.1	16.2	71.8	22.1	90	32.2	1965	50.6	10.3	38	3.3	1966*		
4	60.0	15.6	71.3	21.8	93	33.9	1965	48.7	9.3	32	.0	1967*		
5	60.3	15.7	73.1	22.8	88	31.1	1955	47.6	8.7	35	1.7	1966		
6	62.9	17.2	74.4	23.6	96	35.6	1950	51.5	10.8	40	4.4	1945		
7	61.2	16.2	72.7	22.6	92	33.3	1959	50.0	10.0	35	1.7	1970		
8	61.2	16.2	73.1	22.8	97	32.2	1963	49.3	9.6	36	2.2	1970*		
9	61.5	16.4	74.0	23.3	97	36.1	1963	49.1	9.5	33	.6	1947		
10	63.8	17.7	75.2	24.0	95	35.0	1963	52.4	11.3	33	.6	1947		
11	64.2	17.9	75.0	23.9	92	33.3	1948	53.6	12.0	31	-.6	1966		
12	64.5	18.1	75.5	24.2	89	31.7	1959*	53.7	12.1	38	3.3	1969		
13	64.1	17.8	75.3	24.1	95	35.0	1956	53.2	11.8	42	5.6	1976*		
14	64.3	17.9	74.4	23.6	92	33.3	1957*	54.4	12.4	41	5.0	1960		
15	64.8	18.2	75.0	23.9	95	35.0	1962	54.7	12.6	42	5.6	1951		
16	66.0	18.9	76.1	24.5	89	31.7	1945	55.6	13.1	40	4.4	1973		
17	66.0	18.9	77.0	25.0	92	33.3	1974	55.4	13.0	40	4.4	1956		
18	66.5	19.2	77.0	25.0	94	34.4	1962	56.2	13.4	39	3.9	1973		
19	67.0	19.4	77.7	25.4	94	34.4	1962	56.4	13.6	42	5.6	1976		
20	67.0	19.4	76.9	24.9	97	32.2	1947	57.3	14.1	42	5.6	1961*		
21	67.1	19.5	76.6	24.8	88	31.1	1975*	57.7	14.3	40	4.4	1950		
22	67.3	19.6	77.6	25.3	89	31.7	1964*	56.9	13.8	43	6.1	1950		
23	68.1	20.1	78.4	25.8	96	35.6	1964	57.7	14.3	40	4.4	1961		
24	67.2	19.6	77.6	25.3	95	35.0	1964	56.4	13.6	44	6.7	1945		
25	67.1	19.5	77.2	25.1	89	31.7	1962	56.8	13.8	39	3.9	1956		
26	67.3	19.6	76.9	24.9	91	32.8	1953	57.7	14.3	44	6.7	1956*		
27	66.1	18.9	75.4	24.1	94	34.4	1963	56.9	13.8	41	5.0	1961		
28	65.5	18.8	75.5	24.2	89	31.7	1959	56.8	13.6	31	-.6	1961		
29	67.5	19.7	76.8	24.9	94	34.4	1969	58.2	14.6	46	7.8	1953*		
30	69.0	20.0	77.8	25.4	94	34.4	1969	58.2	14.6	46	7.8	1949		
31	68.6	20.3	79.2	26.2	92	33.3	1956	58.1	14.5	43	6.1	1961		
Monthly	64.5	18.2	75.9	24.1	97	36.1	1963	54.3	12.4	31	-.6	1960*		

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

4

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## DAILY AVERAGE/EXTREME TEMPERATURES

1773

QUANTICO, VA

1945-1976

1982-1983

JUNE

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	69.7	20.9	80.0	26.7	91	32.8	1951	59.4	15.2	46	7.8	1966
2	69.3	20.7	79.7	26.5	99	37.2	1951	58.9	14.9	48	8.9	1967
3	68.8	20.4	78.4	25.8	92	33.3	1951	59.1	15.1	43	6.1	1966
4	68.8	20.4	79.5	26.4	91	32.8	1973	58.2	14.6	48	8.9	1976
5	69.8	21.0	80.6	27.0	92	33.3	1973	59.0	15.0	46	7.8	1950
6	71.9	22.2	83.0	28.3	96	36.4	1952	60.8	16.0	46	7.8	1945
7	72.0	22.2	82.2	27.9	90	32.2	1971	61.8	16.6	45	7.2	1945
8	72.2	22.3	82.7	28.2	92	33.3	1946	61.7	16.5	54	12.2	1972
9	72.8	22.7	82.9	28.3	95	35.7	1952	62.7	17.1	45	7.2	1949
10	74.1	23.4	84.3	29.1	102	38.9	1964	63.9	17.7	52	11.1	1972
11	73.5	23.1	84.1	28.9	95	35.0	1959	63.0	17.2	45	7.2	1972
12	74.3	23.5	86.5	29.2	93	33.9	1976	64.1	17.8	48	8.9	1952
13	74.3	23.5	83.7	28.7	95	35.0	1956	65.0	18.3	51	10.6	1950
14	73.4	23.0	83.2	28.4	95	35.0	1956	63.6	17.6	54	12.2	1970
15	73.0	22.8	82.7	28.2	100	37.8	1964	63.3	17.4	54	12.2	1953
16	72.0	22.2	81.8	27.7	97	36.1	1957	62.2	16.8	52	11.1	1961
17	72.2	22.3	81.9	27.7	95	35.0	1952	62.5	16.9	50	10.0	1961
18	72.1	22.3	81.5	27.5	97	36.1	1957	62.7	17.1	50	10.0	1965
19	73.3	22.9	83.4	28.6	97	36.1	1952	63.3	17.4	48	8.9	1954
20	74.3	23.5	83.7	28.7	94	34.4	1964	64.4	18.3	51	10.6	1954
21	75.0	23.9	86.5	29.2	95	35.0	1953	65.3	18.6	55	12.8	1968
22	74.7	23.7	84.4	29.1	93	33.9	1968	64.9	18.3	50	10.0	1963
23	75.3	24.1	84.9	29.4	93	33.9	1965	65.8	18.8	54	12.2	1963
24	76.6	24.8	87.3	30.7	97	36.1	1966	65.8	18.8	52	11.1	1972
25	77.1	25.1	87.7	30.9	99	37.2	1966	66.6	19.2	59	15.0	1972
26	76.3	24.6	86.4	30.2	100	37.8	1952	66.3	19.1	55	12.8	1965
27	76.7	24.8	87.1	30.6	97	36.1	1952	66.2	19.0	55	12.8	1965
28	75.8	24.3	86.3	30.2	98	36.7	1959	65.8	18.7	53	11.7	1970
29	76.2	24.6	86.2	30.1	98	36.7	1959	66.3	19.1	54	12.2	1967
30	76.0	25.6	88.4	31.3	100	37.8	1945	67.7	19.8	59	15.0	1974
31												
Monthly	73.5	23.1	83.6	28.7	102	38.9	1964	63.4	17.4	43	6.1	1966

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

1973

QUANTICO, VA

1945-1976 1982-1983

JULY

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C	
1	78.4	25.8	88.7	31.5	99	37.2	1945		67.9	19.9	59	15.0	1952
2	77.7	25.4	88.6	31.4	98	36.7	1966*		66.7	19.3	49	9.4	1952
3	78.0	25.6	88.3	31.3	98	36.7	1966		67.7	19.8	53	12.8	1957
4	76.6	24.8	87.0	30.6	98	36.7	1966		66.3	19.1	54	14.4	1963*
5	76.4	24.7	86.3	30.2	96	35.6	1955*		66.4	19.1	56	13.3	1967*
6	76.7	24.4	85.5	29.7	97	36.1	1949		66.4	19.1	56	13.3	1951
7	75.7	24.3	85.4	29.7	93	33.9	1966		66.1	18.9	57	13.9	1983*
8	75.7	24.3	85.7	29.8	94	34.4	1946		65.8	18.8	57	13.9	1983*
9	75.7	24.3	85.4	29.7	94	34.4	1974*		66.2	19.0	53	11.7	1944
10	76.1	24.6	85.2	29.6	95	35.0	1974		67.3	19.6	56	13.3	1961
11	76.0	24.4	85.5	29.7	99	37.2	1966		66.4	19.1	57	13.9	1983*
12	75.7	24.3	85.5	29.7	95	35.0	1966*		66.0	18.9	51	10.6	1945
13	77.2	25.1	87.2	30.7	99	37.2	1954		67.2	19.6	58	14.4	1963*
14	76.1	25.6	87.1	30.6	100	37.8	1954		68.9	20.5	60	15.6	1953
15	76.0	25.6	86.6	30.3	97	36.1	1983		69.5	20.8	61	16.1	196*
16	77.7	25.4	87.1	30.6	95	35.0	1953		68.4	20.2	57	15.0	1960
17	77.5	25.3	87.2	30.7	96	35.6	1955*		67.9	19.9	54	12.2	1946
18	76.4	25.8	88.0	31.1	99	37.2	1953		68.8	20.4	56	13.3	1946
19	76.2	26.2	88.9	31.6	96	35.6	1969		69.6	20.9	60	15.6	1957
20	76.6	25.9	87.9	31.1	94	34.4	1972*		69.5	20.8	61	16.1	1965
21	77.7	25.4	87.4	30.8	98	36.7	1957		67.9	19.9	56	13.3	1965
22	76.4	25.8	88.2	31.2	100	37.8	1952		68.8	20.4	56	13.3	196*
23	76.5	25.8	87.4	30.4	100	37.8	1952		69.4	20.8	53	11.7	1947
24	77.5	25.3	86.2	30.1	96	35.6	1976*		68.8	20.4	54	12.2	1947
25	77.6	25.3	86.8	30.3	97	36.1	1968		68.6	20.3	60	15.6	1957*
26	77.4	25.2	87.6	30.9	95	35.0	1982*		67.4	19.7	57	13.9	1976
27	76.6	25.9	88.4	31.4	96	35.6	1963*		68.8	20.4	56	13.3	1946
28	75.7	26.3	89.2	31.8	99	37.2	1952		69.5	20.8	54	12.2	1962
29	77.8	25.4	86.9	30.5	96	35.6	1964*		68.8	20.4	57	13.9	1946
30	77.6	25.3	86.8	30.4	99	37.2	1954		67.9	19.9	58	14.4	1946
31	78.1	25.6	88.0	31.1	102	38.9	1954		68.1	20.1	55	12.8	1956
Monthly	77.5	25.3	87.1	30.6	102	38.9	1954		67.8	19.9	49	9.4	1952

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

13773

QUANTICO, VA

1945-1976 1982-1983

AUGUST

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME		DATE	AVERAGE		EXTREME		DATE
	°F	°C	°F	°C	°F	°C		°F	°C	°F	°C	
1	78.2	25.7	87.3	30.7	97	36.1	1968	67.0	20.6	57	13.9	1966
2	77.8	25.4	86.9	30.5	97	36.1	1955	68.7	20.4	57	13.9	1947
3	77.1	25.1	86.7	30.4	97	36.1	1957	67.6	19.8	56	13.3	1965*
4	76.4	24.7	85.0	29.4	100	37.8	1975	67.8	19.9	54	14.4	1965
5	76.0	24.4	84.8	29.3	94	34.4	1953	67.3	19.6	54	12.2	1951
6	75.1	23.9	84.6	29.2	97	36.1	1955	65.5	18.6	54	12.2	1951*
7	75.4	24.1	84.0	28.9	95	35.0	1968	66.7	19.3	55	12.8	1950
8	76.5	24.7	85.9	29.9	94	34.4	1983	67.1	19.5	54	14.4	1975*
9	77.3	25.2	87.2	30.7	97	36.1	1983	67.4	19.7	56	13.3	1964
10	76.9	24.9	86.4	30.2	97	36.1	1949	67.5	19.7	60	15.6	1972*
11	76.0	24.4	85.9	29.9	99	37.2	1949	66.2	19.0	55	12.8	1972
12	75.3	24.1	85.1	29.5	97	36.1	1949	65.3	18.5	56	13.3	1968
13	74.8	23.8	84.1	28.9	94	34.4	1947	65.5	18.6	54	12.2	1964
14	75.7	24.3	85.6	29.8	96	35.6	1959*	65.8	18.8	53	11.7	1950
15	76.2	24.6	86.1	30.1	97	36.1	1947	66.3	19.1	50	10.0	1964
16	77.0	25.0	86.6	30.3	96	35.6	1954	67.3	19.6	55	12.8	1963
17	76.7	24.8	85.5	29.7	95	35.0	1968	68.0	20.0	56	13.3	1983
18	76.0	24.4	84.7	29.3	94	34.4	1956	67.3	19.6	56	14.4	1953
19	75.6	24.3	85.5	29.7	95	35.0	1983	66.2	19.0	54	12.2	1953
20	75.6	24.2	85.5	29.7	95	36.7	1955	65.8	18.8	51	10.6	1964
21	75.1	23.9	84.5	29.2	97	36.1	1951	65.9	18.8	55	12.8	1949
22	75.9	24.4	84.9	29.4	101	38.3	1983	66.8	19.3	56	13.3	1949
23	75.1	23.9	83.5	28.6	97	36.1	1968	66.7	19.3	54	12.2	1952
24	74.2	23.4	83.5	28.6	96	35.6	1968	65.7	18.3	50	10.0	1952
25	75.0	23.9	84.9	29.4	95	35.0	1968*	65.3	18.5	49	9.4	1952
26	75.6	24.2	86.2	30.1	98	36.7	1948	64.9	18.3	50	10.0	1963
27	75.5	24.2	84.8	29.3	98	36.7	1948	66.1	18.9	52	11.1	1945
28	76.0	24.6	85.7	29.8	97	36.1	1948	66.6	19.2	52	11.1	1945
29	76.4	24.7	86.8	30.4	98	36.7	1948	66.1	18.9	50	10.0	1965
30	76.7	24.8	87.5	30.8	101	38.3	1953	66.0	18.9	52	11.1	1965
31	75.5	24.2	85.6	29.8	99	37.2	1953	66.6	18.7	48	8.9	1946
Monthly	76.0	24.4	85.5	29.7	101	38.3	1983	66.6	19.2	48	8.9	1946

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

17773

C ANTICO, VA

1945-1976

1978-1978

9999-9999

SEPTEMBER

STATION

STATION NAME

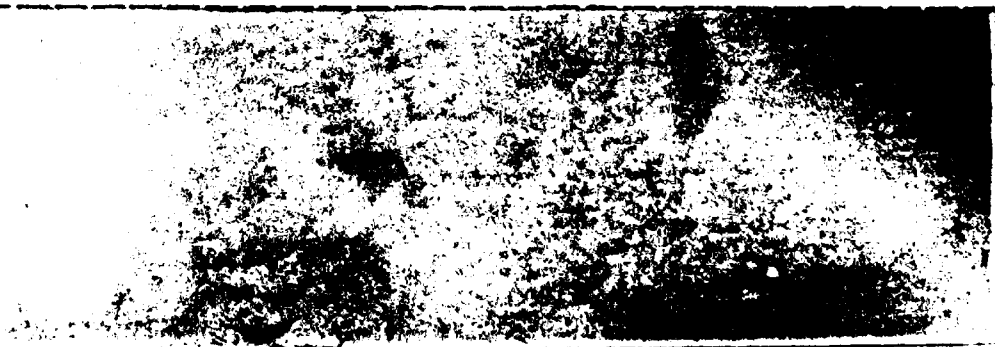
YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	74.2	23.8	74.4	29.1	97	36.1	1953		65.3	18.5	48	8.9	1949	
2	74.1	23.4	74.1	28.9	99	37.2	1953		64.3	17.9	46	7.8	1949	
3	73.9	23.3	73.7	28.7	97	36.1	1953		64.0	17.8	49	9.4	1947	
4	74.1	23.4	73.8	28.8	94	34.4	1947		64.4	18.0	53	11.7	1946	
5	73.8	23.2	73.7	28.7	97	36.1	1954		63.8	17.7	52	11.1	1946	
6	73.0	22.8	72.1	27.8	100	37.8	1954		63.8	17.7	50	10.0	1962	
7	72.4	22.4	71.7	27.6	105	40.6	1954		63.1	17.3	50	10.0	1962	
8	71.3	21.8	71.3	27.4	90	32.2	1976*		61.2	16.2	49	9.4	1962	
9	71.0	21.9	71.1	27.3	93	33.9	1946		61.8	16.6	50	10.0	1956	
10	71.6	22.0	71.7	27.6	92	33.3	1970		61.5	16.4	45	7.2	1956	
11	70.6	21.4	70.8	27.1	92	33.3	1964		60.5	15.8	44	6.7	1949	
12	70.6	21.4	70.9	27.2	95	35.0	1983		60.3	15.7	44	6.7	1967	
13	69.8	21.0	70.0	26.7	96	35.6	1952		59.8	15.4	48	8.9	1958*	
14	70.1	21.2	70.3	26.8	94	34.4	1952		60.0	15.6	43	6.1	1953	
15	69.6	20.8	79.3	26.3	90	32.2	1970		59.5	15.3	45	7.2	1946	
16	69.2	20.7	79.1	26.2	90	32.2	1970*		59.6	15.3	46	7.8	1946	
17	69.2	20.7	77.8	25.4	96	35.6	1958		60.6	15.9	46	7.8	1946	
18	69.8	20.4	77.6	25.3	90	32.2	1970		60.0	15.6	47	8.3	1959	
19	70.0	21.1	79.4	26.3	94	34.4	1983		60.6	15.9	44	6.7	1959	
20	68.7	20.4	77.0	25.0	91	32.8	1983		60.3	15.7	43	6.1	1959	
21	68.2	20.1	76.4	24.7	92	33.3	1963		59.9	15.5	44	3.3	1956	
22	66.5	19.2	75.3	24.1	92	33.3	1970		57.3	14.1	41	5.0	1962	
23	65.0	18.3	75.2	24.0	94	34.4	1970		54.7	12.6	41	5.0	1947	
24	64.3	17.9	74.3	23.5	91	32.8	1959		54.4	12.4	39	3.9	1974*	
25	65.2	18.4	75.6	24.2	91	32.8	1970		54.9	12.7	40	4.4	1963*	
26	65.5	18.6	75.0	23.9	91	32.8	1970		55.9	13.3	42	5.6	1983	
27	64.0	18.3	74.4	23.6	89	31.7	1959		55.5	13.1	38	3.3	1947	
28	64.6	18.1	73.7	23.2	88	31.1	1954		55.5	13.1	38	3.3	1947	
29	63.7	17.6	72.6	22.6	90	32.2	1954		54.9	12.7	40	4.4	1951	
30	63.3	17.4	72.4	22.4	90	32.2	1954		54.2	12.3	39	3.9	1951	
31														
Monthly	69.2	20.7	78.8	26.0	105	40.6	1954		59.7	15.4	33	3.3	1956	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

1973

QUANTICO, VA

1945-1976

1978-1978

9999-9999

OCTOBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP					MINIMUM TEMP				
	AVERAGE		AVERAGE		EXTREME			AVERAGE		EXTREME		
	°F	°C	°F	°C	°F	°C	DATE	°F	°C	°F	°C	DATE
1	62.7	17.1	72.4	22.4	85	29.4	1954	53.3	11.8	34	1.1	1947
2	62.7	17.1	72.9	22.7	87	30.6	1952	52.4	11.3	34	1.1	1947
3	62.5	16.9	73.2	22.9	88	31.1	1954	51.8	11.0	34	1.1	1974
4	61.6	16.4	72.3	22.4	94	34.4	1954	51.2	10.7	30	-1.1	1974
5	63.0	17.2	73.8	23.2	93	33.9	1951	52.2	11.2	35	1.7	1965
6	62.0	16.7	72.9	22.7	92	33.3	1951	51.5	10.8	31	-.6	1965
7	61.2	16.2	71.4	21.9	83	28.3	1955*	51.1	10.6	34	3.3	1964*
8	60.7	15.9	70.8	21.6	84	28.9	1949	51.1	10.6	33	.6	1954
9	61.7	16.1	69.7	20.9	84	28.9	1949	52.4	11.3	37	2.6	1953
10	60.4	15.8	70.2	21.2	86	30.0	1958	50.5	10.3	35	1.7	1964
11	60.2	15.7	70.7	21.5	87	30.6	1954	49.7	9.8	29	-1.7	1964
12	60.7	15.9	71.6	22.0	88	31.1	1962*	49.8	9.9	29	-1.7	1964
13	59.7	15.2	70.3	21.3	88	31.1	1954	48.8	8.9	34	1.1	1957
14	60.1	15.6	70.6	21.4	87	30.6	1975	49.4	9.7	35	1.7	1952
15	61.1	15.6	71.4	21.9	86	30.0	1975	48.8	9.3	35	1.7	1945
16	59.2	15.1	69.6	20.9	82	27.8	1962	48.8	9.3	34	1.1	1945
17	59.5	15.3	70.4	21.3	83	28.3	1963	48.7	9.3	36	2.2	1961
18	58.4	14.7	68.5	20.3	80	26.7	1963*	48.0	8.9	35	1.7	1976*
19	55.0	13.3	65.6	18.7	83	28.2	1947	46.4	8.0	30	-1.1	1948
20	55.3	12.9	65.6	18.7	86	30.0	1969	45.2	7.3	30	-1.1	1952
21	55.1	12.8	65.8	18.8	83	28.3	1947	44.3	6.8	28	-2.2	1952
22	56.5	13.6	66.1	18.9	82	27.8	1949	46.5	8.1	28	-2.2	1952
23	57.8	14.3	68.3	20.2	88	31.1	1947	47.3	8.5	30	-1.1	1952
24	56.7	13.7	66.0	18.9	77	25.0	1954	47.4	8.6	29	-1.7	1969*
25	54.7	12.6	63.8	17.7	76	24.4	1974	45.1	7.3	29	-1.7	1964
26	57.2	11.8	63.2	17.3	76	24.4	1947	43.4	6.3	31	-.6	1965*
27	53.4	11.9	63.8	17.7	77	25.0	1963	43.1	6.2	30	-1.1	1962
28	54.7	12.2	63.8	17.7	75	23.9	1945	44.3	6.8	29	-1.7	1976
29	54.7	12.7	64.6	18.1	80	26.7	1946	45.2	7.3	28	-2.2	1965
30	53.2	11.8	63.6	17.6	84	28.9	1950	42.9	6.1	24	-4.4	1952
31	54.7	12.7	65.5	18.6	85	29.4	1946	44.3	6.8	30	-1.1	1965
Monthly	58.4	14.7	68.7	20.4	94	34.4	1954	48.2	9.0	24	-4.4	1952

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

CELLULOSE-CELLULOSE



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

15773

QUANTICO, VA

1945-1976

1978-1978

9999-9999

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	55.3	12.9	65.4	18.6	83	28.3	1950		45.5	7.5	29	-1.7	1954	
2	55.7	13.2	65.7	18.8	85	29.4	1971		46.0	7.8	28	-2.2	1965	
3	54.9	12.7	64.7	18.2	81	27.2	1974		45.5	7.5	26	-3.3	1951	
4	52.3	11.3	61.7	16.5	82	27.8	1974		43.3	6.3	25	-3.9	1951	
5	49.9	9.9	58.3	14.6	82	27.8	1975		41.1	5.1	27	-2.8	1952*	
6	46.8	9.3	58.7	14.8	77	25.0	1948		38.9	3.8	24	-4.4	1967	
7	47.9	8.8	58.5	14.7	72	22.2	1975*		37.4	3.0	26	-3.3	1973	
8	48.4	9.7	59.7	15.4	82	27.8	1975		39.1	3.9	25	-3.9	196	
9	46.3	9.4	59.9	15.5	76	24.4	1966*		38.4	3.6	24	-4.4	1951	
10	46.3	8.9	57.9	14.4	75	23.9	1975*		38.2	3.4	27	-2.8	1961*	
11	47.4	8.8	58.3	14.6	76	24.4	1964*		37.5	3.1	26	-3.3	1961*	
12	46.3	9.1	58.6	14.8	77	25.0	1964		38.4	3.6	20	-6.7	1957	
13	49.2	9.6	59.5	15.3	79	26.1	1964		38.9	3.8	26	-3.3	1957*	
14	46.9	9.9	61.2	16.2	80	26.7	1955		38.3	3.5	26	-3.3	1968*	
15	48.1	8.9	57.8	14.3	78	25.6	1973		38.1	3.4	27	-2.8	1967*	
16	50.2	10.1	60.8	16.0	80	26.7	1955		39.2	4.0	21	-6.1	1967	
17	47.8	8.8	57.3	14.1	71	21.7	1963		38.0	3.3	26	-3.3	1959	
18	46.3	7.9	56.1	13.4	73	22.8	1963		36.4	2.4	22	-5.6	1959	
19	47.0	8.3	56.7	13.7	74	23.3	1976*		37.2	2.9	23	-5.0	1951	
20	45.4	7.7	55.9	13.3	73	22.8	1948		36.9	2.2	23	-5.0	1951	
21	46.6	7.0	54.1	12.3	68	20.0	1956		35.1	1.7	17	-8.3	1951	
22	43.4	6.3	53.2	11.8	75	23.9	1983		34.1	1.2	16	-8.9	1964	
23	43.2	6.2	54.0	12.2	70	21.1	1951		32.9	.5	16	-8.9	1964	
24	43.5	6.4	53.6	12.0	74	23.3	1958		33.5	.8	17	-8.3	1956	
25	41.7	5.4	51.3	10.7	75	23.9	1973		32.2	.1	16	-8.9	1970	
26	43.1	6.2	52.7	11.5	71	21.7	1967*		33.7	.9	16	-8.9	1950	
27	44.1	6.7	53.7	12.1	68	20.0	1965*		34.5	1.4	19	-7.2	1974	
28	43.8	6.1	51.9	11.1	72	22.2	1973		34.0	1.1	19	-7.2	1951	
29	42.1	5.6	50.9	10.5	69	20.6	1968		33.3	.7	13	-10.6	1955	
30	47.7	3.7	47.2	8.4	65	18.3	1973		30.2	-1.0	17	-8.3	1976	
31														
Monthly	47.3	8.5	57.2	14.0	85	29.4	1971		37.5	3.1	13	-10.6	1955	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# DAILY AVERAGE/EXTREME TEMPERATURES

17773

QUANTICO, VA

1945-1976

1978-1978

1999-1999

DECEMBER

STATION

STATION NAME

YEARS

MONTH

DAY	MEAN TEMP		MAXIMUM TEMP						MINIMUM TEMP					
	AVERAGE		AVERAGE		EXTREME		DATE		AVERAGE		EXTREME		DATE	
	°F	°C	°F	°C	°F	°C			°F	°C	°F	°C		
1	38.2	3.4	48.3	8.9	67	19.4	1946		28.5	-1.9	14	-10.0	1976	
2	38.4	3.6	48.4	9.1	73	22.8	1970		28.6	-1.9	17	-8.3	1967	
3	40.7	4.8	50.1	10.1	72	22.2	1950		31.5	-0.3	14	-10.0	1946	
4	42.0	6.1	52.8	11.6	77	25.0	1982		33.7	.9	16	-8.9	1966	
5	42.3	5.7	52.2	11.2	67	19.4	1960		32.8	.4	19	-7.2	1966	
6	40.4	4.9	51.3	10.7	70	21.1	1982		30.8	-0.7	21	-6.1	1974	
7	40.6	4.8	49.6	9.8	78	25.6	1956		31.8	-0.1	15	-9.4	1958	
8	41.2	5.1	50.3	10.2	77	25.0	1966		32.3	.2	14	-10.0	1954	
9	39.5	4.2	47.6	8.7	73	22.8	1951		31.6	-0.2	19	-7.2	1967	
10	38.9	3.8	46.8	8.2	70	21.1	1966		30.8	-0.7	15	-9.4	1960	
11	37.5	3.1	45.3	7.4	68	20.0	1971		29.7	-1.3	12	-11.1	1968	
12	38.2	3.4	45.5	7.5	65	18.3	1946		31.0	-0.6	7	-13.9	1962	
13	38.7	3.7	45.8	7.7	65	18.3	1949		31.4	-0.3	5	-15.0	1962	
14	37.3	2.9	44.9	7.2	62	16.7	1948		29.7	-1.3	12	-11.1	1960	
15	35.3	2.1	43.2	6.2	71	21.7	1971		28.6	-1.9	12	-11.1	1962	
16	35.8	2.1	44.8	7.1	75	23.9	1971		27.3	-2.6	5	-15.0	1958	
17	36.1	2.3	45.2	7.3	60	15.6	1971		26.9	-2.8	4	-15.6	1951	
18	35.2	1.8	43.7	6.5	59	15.0	1967		26.8	-2.9	12	-11.1	1953	
19	35.1	1.7	43.5	6.4	66	18.9	1970		26.8	-2.9	10	-12.2	1953	
20	35.6	2.0	43.5	6.4	63	17.2	1972		27.7	-2.4	10	-12.2	1963	
21	35.1	1.7	42.3	5.7	64	17.8	1951		28.1	-2.2	7	-13.9	1963	
22	34.9	1.6	42.6	5.9	69	20.6	1949		27.2	-2.7	9	-12.8	1960	
23	35.7	2.1	44.3	6.8	62	16.7	1957		27.1	-2.7	5	-15.0	1960	
24	37.6	3.1	44.7	7.1	66	18.9	1965		30.5	-0.8	14	-10.0	1960	
25	35.7	2.1	43.6	6.4	73	22.8	1964		27.7	-2.4	12	-11.1	1960	
26	37.3	2.9	46.1	7.8	71	21.7	1964		28.5	-1.9	14	-10.0	1966	
27	36.7	2.6	45.3	7.4	70	21.1	1971		28.1	-2.2	12	-11.1	1948	
28	36.0	2.7	46.8	8.2	74	23.3	1946		27.7	-2.4	10	-12.2	1950	
29	36.7	2.6	44.1	6.7	57	13.9	1954		29.5	-1.4	14	-10.0	1952	
30	36.2	2.3	44.4	6.9	69	20.6	1971		27.9	-2.3	10	-12.2	1963	
31	36.5	2.5	44.4	6.9	76	24.4	1965		28.7	-1.8	6	-14.4	1963	
Monthly	37.7	3.2	46.2	7.9	78	25.6	1956		29.3	-1.5	4	-15.6	1951	

\*ALSO ON EARLIER YEARS

DIRNAVOCEANMET-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

1773 STATION QUANTICO, VA 45-76, 78, 82 YEARS

W-HOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
65		45	88	87		100	69	93	92	81	80	75	
66		75		98	88		94	93	93	85	80	74	
67	72	54	68		91	94	98	67		88	66	62	
68	65	82	88	85	92	96	96	96	90	71	77	65	78
69	74	74	85	87	90	96	97	99	89		76	69	
70	80		82	81	96	97		93	90	86	84	72	
71	68	70	73	90	90	99	97		94	93	76	76	
72	75	61	84	92		100	100	92	96	87	70	58	
73	72	74	69	87	91	95	99	101	99	81	78	69	101
74	72	77	74	85	90	95	102	96	105	94	69	65	105
75	65	67	80	85	84	61	96	98	88	83	74	68	94
76	65	67	73	87	95	95	94	95	93	81	71	78	95
77	67	65	74	91	92	97	98	97	91	74	74	62	94
78	61	63	61	85	88	95	97	95	96	86	74	59	97
79	69	70	81	90		99	94	94	92		77	64	
80	64	65	81	94	87	90	94	95	91	82	75	67	93
81	56	73	82	88	86	91	95	92	92	83	77	66	95
82	63	63	80	90	95	95	94	94	95	88	69	64	95
83	64	61	88	93	97	97	96	96	93	85	73	57	97
84	63	60	79	91	96	102	96	94	94	76	79	73	102
85	65	72	74	83	94	95	94	93	92	78	77	76	95
86	71	63	88	88	93	94	99	93	75	80	76	77	99
87	78	69	80	88	96	95	92	92	84	87	71	64	94
88	58	54	80	88	86	97	98	97	88	85	80	66	94
89	61	52	68	83	94	94	96	93	91	86	69	59	94
90	63	65	66	83	90	93	93	94	94	85	67	73	94
91	56	72	70	85	90	91	92	92	88	80	85	75	92
92	64	69	76	89	93	87	97	93	92	80	78	65	97
93	63	64	77	88	86	94	95	94	93	84	78	68	94
94	74	72	80	92	92	93	95	92	90	79	82	65	94
MEAN													
S. D.													
TOTAL OBS.													

SMOS

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

**YEARS**

[illegible]**SMOS**

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MAXIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

1973

OLANTICO, VA

45-76, 78, 82

STATION

STATION NAME

YEARS

WHOLE DEGREES FAHRENHEIT  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45					89 79								MAX TEMP DAYS
46	65 27		80 30			92 29		90 7					MAX TEMP DAYS
47				86 29					74 29				MAX TEMP DAYS
48										86 30			MAX TEMP DAYS
49		86 27					93 29						MAX TEMP DAYS
50								87 7					MAX TEMP DAYS
51										95 30			MAX TEMP DAYS
52					2 70						92 27		MAX TEMP DAYS
53	58 70			92 28					80 29	76 25	74 21	58 21	MAX TEMP DAYS
54									67 1				MAX TEMP DAYS
55		59 19	70 23	77 21	88 20	90 22	95 21	92 20	91 20	82 20	81 17	77 22	MAX TEMP DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

1773

QUANTICO, VA

45-76, 78, 82

STATION

STATION NAME

YEARS

FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
45		12	27	28		45	51	52	53	34	22	11	
46		17		32	40		54		45	38	25	14	
47	17		18			48		57			25	18	
48		18	14	30		51	53		44	30	31	12	
49	18	15	23	33	42	43	65	55	44		22	13	
50	18		10		34	46		53	40	33	16	10	
51	11	8	25	31	42	54	56		39	38	17	8	
52	10	18	23	31		48	49	49	45	24	23	14	
53	21	17	24	31	46	48	57	54	41	34	25	15	17
54	11	15	20	27	36	48	58	55	48	33	26	14	11
55	4	6	22	34	44	53	65	62	48	33	13	13	4
56	16	19		27	39	49	55	56	38	35	17	24	
57	1	22	26	31	39	55	55	54	39	30	20	12	1
58	11	5	28	33	46	52	68	57	47	38	18	5	
59	7	14	21	34		55	57	56	43		22	19	
60	15	14	8	28	38	52	57	59	49	31	25	5	
61	5	6	22	26	31	50	56	54	43	33	26	15	4
62	8	14	16	30	39	56	54	57	41	30	27	5	5
63	6	6	24	30	38	53	56	50	39	32	26	6	4
64	1	21	21	26	46	48	58	50	44	29	16	13	
65	4	6	14	25	48	49	56	50	46	28	22	24	
66	7	2	23	31	31	43	56	56	46	32	26	14	
67	16	9	12	34	32	48	56	58	44	33	21	17	9
68	2	7	19	33	39	54	57	53	47	31	26	12	7
69	13	21	24	37	38	55	65	57	45	29	22	19	13
70	2	12	24	32	35	53	57	60	45	38	16	18	7
71	10	4	23	31	40	58	60	55	50	43	27	21	4
72	3	14	21	25	43	45	60	55	48	30	24	20	3
73	17	11	28	32	39	54	59	60	51	38	26	13	11
74	22	15	26	31	37	56	58	58	39	30	19	24	15
MEAN													
S. D.													
TOTAL OBS.													

SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

1773  
STATION

CONTICO, VA  
STATION NAME

45-76, 78, 82  
YEARS

WHOLE DEGREES FAHRENHEIT

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
'5	17	27	21	31	47	55	58	58	45	32		18	
'6		14	22		40	48	57	52					
'7													
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NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

EXTREME VALUES

MINIMUM TEMPERATURE  
(FROM DAILY OBSERVATIONS)

1773 STATION 001100, VA STATION NAME 85-76, 78, 82 YEARS

WHOLE DEGREES FAHRENHEIT  
/BASED ON LESS THAN FULL MONTHS/

MONTH YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ALL MONTHS
81					32 29								MIN TEMP DAYS
82	7 27		25 70			51 22		46 70					MIN TEMP DAYS
83				31 29	33 30		43 30		38 29	34 30			MIN TEMP DAYS
84	3 29				40 30			44 71					MIN TEMP DAYS
85										34 30			MIN TEMP DAYS
86		14 21		24 28			57 29						MIN TEMP DAYS
87								44 71					MIN TEMP DAYS
88			17 70										MIN TEMP DAYS
89					43 30					34 30			MIN TEMP DAYS
90											41 27		MIN TEMP DAYS
91	9 70			32 27					46 29	29 25	17 21	14 21	MIN TEMP DAYS
92									44 1				MIN TEMP DAYS
93			0	0	0	57 22	0	0	0	0	0	0	MIN TEMP DAYS
MEAN													
S.D.													
TOTAL OBS.													

SMOS



## PSYCHROMETRIC SUMMARY

**MONTH**

HOURS (L S T )

[illegible]

NAVWEASERVCOM

48

**MONTH**

HOURS LEFT

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

**STATION**

STATION NAME

YEARS

**NORTH**

HOURS (L S T )

[illegible]

## PSYCHROMETRIC SUMMARY

**NORTH**

HOURS ( L S T )

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																											TOTAL	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	D.B./W.B.	Dry Bulb	Wet Bulb	Dew Point										
1																															
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39																															

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

STATION NAME

**YEARS**

**MONTH**

HOURS (LST)

[illegible]

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

**MONTH**

HOURS ( L S Y )

[illegible]

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

## NOTES

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

STATION NAME

**YEARS**

1999-2000

345

**HOURS (LST)**

[illegible]

NAVWEASERVCOM



## PSYCHROMETRIC SUMMARY

**STATION**

STATION NAME

6-78

**YEARS**

**MONTH**

**HOURS (L.S.T.)**

[illegible]

## PSYCHROMETRIC SUMMARY

**MONTH**

**HOURS (L.S.T.)**

[illegible]

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

**STATION**

STATION NAME

**YEARS**

**MONTH**

HOUSE (L.S.T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**MONTH**

HOURS (L.S.T.)

[illegible]

## PSYCHROMETRIC SUMMARY

**MONTH**

HOURS (LST)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																					TOTAL D.B./W.B.	TOTAL		
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	≥31	Dry Bulb	Wet Bulb	Dew Point					
1								.1	.1	.0									1	1					
2								.1	.2	.3	.2							.0	2	2					
3								.1	.6	.1									2	2					
4								.7	.3	.1	.1								5	5					
5								1.1	.7	.3									9	9					
6								1.5	.9	.5	.1								13	13					
7								1.9	.4	.2									17	17					
8								2.3	.7	.1	.7								21	21					
9								2.7	.1	.7	.7								25	25					
10								3.1	.7	.1	.7								29	29					
11								3.5	.7	.1	.7								33	33					
12								3.9	.7	.1	.7								37	37					
13								4.3	.7	.1	.7								41	41					
14								4.7	.7	.1	.7								45	45					
15								5.1	.7	.1	.7								49	49					
16								5.5	.7	.1	.7								53	53					
17								5.9	.7	.1	.7								57	57					
18								6.3	.7	.1	.7								61	61					
19								6.7	.7	.1	.7								65	65					
20								7.1	.7	.1	.7								69	69					
21								7.5	.7	.1	.7								73	73					
22								7.9	.7	.1	.7								77	77					
23								8.3	.7	.1	.7								81	81					
24								8.7	.7	.1	.7								85	85					
25								9.1	.7	.1	.7								89	89					
26								9.5	.7	.1	.7								93	93					
27								9.9	.7	.1	.7								97	97					
28								10.3	.7	.1	.7								101	101					
29								10.7	.7	.1	.7								105	105					
30								11.1	.7	.1	.7								109	109					
31								11.5	.7	.1	.7								113	113					
32								11.9	.7	.1	.7								117	117					
33								12.3	.7	.1	.7								121	121					
34																									

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

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AC

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HOURS (LST)

[illegible]

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

**MONTH**

                      
HOURS (L S T )

[illegible]

NAVWEASERVCOM

## PSYCHROMETRIC SUMMARY

STATION

STATION NAME

**YEARS**

**MONTH**

A. F.

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HOURS (L.S.T.)

[illegible]



## PSYCHROMETRIC SUMMARY

STATION

STATION NAME

**YEARS**

**MONTH**

HOURS (LST)

[illegible]

DATE 2007 54321

**MONTH**

NAVWEASERVCOM

[illegible]

## PSYCHROMETRIC SUMMARY

STATION

STATION NAME

**YEARS**

**MONTH**

HOURS (L S T)

[illegible]

NAVWEASERVCOM

44718 2027.54321

STATION

STATION NAME

**YEARS**

**MONTH**

HOURS (LST)

[illegible]

NAVWEASERVCOM

14278 2097 54321 4

**MONTH**

HOURS (L.S.T.)

[illegible]

4

## PSYCHROMETRIC SUMMARY

ORIGIN	ORIGIN NAME	WEEKS	FILE
		60-78	

PAGE 2

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HOURS (L S T.)

Temp. (F)	WET BULB TEMPERATURE DEPRESSION (F)																												TOTAL D.B./W.B.	TOTAL		
	0	1 - 2	3 - 4	5 - 6	7 - 8	9 - 10	11 - 12	13 - 14	15 - 16	17 - 18	19 - 20	21 - 22	23 - 24	25 - 26	27 - 28	29 - 30	≥ 31	Dry Bulb	Wet Bulb	Dew Point												
	.1	.1	.1	.1	.1													448	458	633	67											
	.1	.1	.1	.1	.1													336	336	54	72											
	.1	.1	.1	.1	.1													255	255	418	62											
	.1	.1	.1	.1	.1													166	166	301	57											
	.1	.1	.1	.1	.1													116	116	221	50											
	.1	.1	.1	.1	.1													43	43	172	43											
	.1	.1	.1	.1	.1													24	24	113	35											
	.1	.1	.1	.1	.1													17	17	62	27											
	.1	.1	.1	.1	.1													24	24	54	23											
	.1	.1	.1	.1	.1													11	11	25	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
	.1	.1	.1	.1	.1													11	11	16	11											
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NAVWEASERVCOM

# MEANS AND STANDARD DEVIATIONS

CRY-POLE TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1773

CHANTICO, VA

69-78

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
1	MEAN	32.0	35.1	41.2	50.5	59.6	68.7	72.6	71.3	65.9	54.5	45.1	38.1	52.6	
	S. D.	9.937	9.625	8.969	9.475	7.535	5.850	4.467	4.330	7.194	9.378	10.600	8.996	16.232	
	TOTAL OBS	248	225	246	238	231	210	218	217	217	217	208	217	2685	
	MEAN	31.4	33.5	40.3	47.8	57.5	66.7	70.5	69.1	64.3	52.6	43.5	37.0	51.3	
	S. D.	10.649	9.645	9.281	9.847	7.864	6.040	4.582	4.872	7.235	9.920	10.540	9.014	16.144	
	TOTAL OBS	248	225	248	239	245	238	245	247	210	239	208	217	2809	
	MEAN	33.3	32.5	39.7	48.4	59.5	68.4	72.2	70.3	64.0	52.2	42.2	35.6	52.5	
	S. D.	10.263	9.958	9.131	9.334	7.075	5.324	4.291	4.575	6.967	9.712	10.866	9.282	24.009	
	TOTAL OBS	268	229	250	247	281	281	282	287	278	257	231	237	3128	
	MEAN	33.0	37.8	46.2	57.4	67.0	75.7	79.6	78.8	71.9	60.2	49.3	39.4	58.5	
	S. D.	9.394	9.714	8.864	9.135	7.289	5.755	4.982	4.499	6.240	7.853	9.780	8.283	17.815	
	TOTAL OBS	289	262	291	276	290	282	286	292	279	259	247	259	3312	
	MEAN	34.6	43.2	51.4	63.0	71.9	80.5	84.5	83.9	77.0	65.4	54.4	44.1	63.5	
	S. D.	9.498	10.777	10.157	10.542	8.425	6.812	5.596	5.043	7.454	8.368	10.634	9.021	18.212	
	TOTAL OBS	289	264	292	279	288	282	285	293	279	263	249	258	3318	
	MEAN	40.2	45.7	53.2	64.9	72.9	81.0	85.0	84.2	77.4	66.8	55.0	44.8	64.1	
	S. D.	9.795	11.221	10.165	10.781	8.061	7.182	5.852	5.399	7.460	8.376	10.673	9.028	17.902	
	TOTAL OBS	275	246	271	259	253	247	249	254	237	237	232	241	301	
	MEAN	36.7	41.1	48.1	60.3	68.7	77.0	80.3	78.9	71.4	60.1	50.0	41.3	59.3	
	S. D.	9.405	10.055	8.780	9.790	7.371	6.139	5.071	4.399	6.838	8.171	9.651	8.703	17.225	
	TOTAL OBS	253	231	251	241	237	226	231	237	220	224	211	223	2785	
2	MEAN	34.3	37.5	44.2	54.4	63.1	71.8	75.1	74.0	67.7	56.5	46.7	39.3	53.0	
	S. D.	9.688	9.481	8.401	9.362	7.353	5.899	4.402	4.348	7.073	9.080	10.111	8.436	16.399	
	TOTAL OBS	248	224	248	238	231	212	222	221	210	217	208	217	2698	
ALL HOURS	MEAN	35.2	38.5	45.8	56.1	65.2	73.9	77.8	76.6	70.2	58.6	48.5	40.1	57.3	
	S. D.	23.438	10.998	10.384	11.594	9.442	8.110	7.264	7.376	8.690	10.307	11.304	9.354	18.850	
	TOTAL OBS	2118	1908	2097	2017	2054	1978	2018	2048	1923	1910	1796	1869	23736	

NAVWEASERVCOM

# MEANS AND STANDARD DEVIATIONS

NET-PULB TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1773

QUANTICO, VA

69-78

STATION	STATION NAME	YEARS
HRS.(L.S.T.)		
	MEAN	JAN. FEB. MAR. APR. MAY JUN. JUL. AUG. SEP. OCT. NOV. DEC. ANNUAL
	S. D.	
	TOTAL OBS	
	MEAN	30.2 32.0 37.9 45.6 56.1 65.3 69.0 68.4 63.0 52.0 42.0 35.6 49.3
	S. D.	7.959 8.819 8.741 9.120 7.551 5.446 4.269 4.285 7.079 9.686 10.227 8.644 16.045
	TOTAL OBS	249 225 246 238 231 210 218 217 210 216 208 216 2683
	MEAN	29.1 37.7 36.7 43.8 54.6 63.8 67.5 66.7 61.8 50.4 41.1 34.6 48.5
	S. D.	10.508 9.001 9.076 9.649 7.947 5.966 4.643 4.878 7.277 10.181 10.427 8.865 16.101
	TOTAL OBS	248 225 248 239 249 238 245 247 217 239 208 217 2809
	MEAN	27.7 29.7 36.4 44.5 59.9 64.7 68.3 67.5 61.5 50.0 39.9 33.4 49.2
	S. D.	11.167 9.418 9.089 9.148 7.574 5.785 4.474 4.762 7.108 9.951 10.720 9.246 16.777
	TOTAL OBS	267 226 249 247 281 281 282 297 278 257 231 237 3123
	MEAN	31.3 33.6 47.8 49.4 59.8 68.1 71.6 71.5 65.8 54.9 44.6 36.1 52.5
	S. D.	7.462 8.950 8.439 8.219 7.276 5.599 4.563 4.354 6.357 8.400 9.779 8.315 16.425
	TOTAL OBS	289 262 290 276 297 282 286 292 279 259 247 259 3311
1	MEAN	34.0 37.0 43.8 52.5 62.1 69.8 73.2 73.1 67.5 57.5 47.5 39.1 55.0
	S. D.	8.889 8.837 8.647 8.484 7.303 5.671 4.971 4.489 6.539 8.113 9.742 8.239 15.962
	TOTAL OBS	289 263 292 279 288 282 285 293 279 260 249 258 3317
	MEAN	35.2 38.7 44.8 53.7 62.8 70.1 73.4 73.1 67.7 58.1 47.5 39.6 55.0
	S. D.	9.041 8.741 8.519 8.190 7.065 5.554 4.778 4.386 6.456 7.994 9.515 8.272 15.521
	TOTAL OBS	275 246 271 259 253 247 249 254 237 237 232 241 3001
	MEAN	33.2 35.0 41.7 51.0 60.9 69.2 72.5 72.2 64.0 55.8 45.3 37.6 53.3
	S. D.	7.338 8.601 8.324 8.476 7.063 5.534 4.462 4.146 6.623 8.658 9.391 8.533 16.022
	TOTAL OBS	253 231 251 241 237 226 231 237 220 224 211 223 2785
2	MEAN	31.5 33.7 39.6 48.2 58.4 67.3 70.9 70.2 64.1 53.5 43.0 36.3 51.0
	S. D.	9.576 8.509 8.388 8.853 7.413 5.517 3.971 4.100 6.970 9.366 9.666 8.435 16.094
	TOTAL OBS	248 226 248 238 231 212 222 221 210 217 208 217 2698
ALL HOURS	MEAN	31.5 34.1 40.4 48.7 58.9 67.3 70.9 70.4 64.7 54.0 44.0 36.6 51.9
	S. D.	1.074 9.316 9.137 9.388 7.917 6.887 5.021 5.050 7.150 9.504 10.283 8.785 16.293
	TOTAL OBS	2117 1904 2092 2017 2056 1978 2016 2048 1923 1909 1794 1868 23727

NAVWEASERVCOM



# MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURES DEG F FROM HOURLY OBSERVATIONS

1973

QUANTICO, VA

69-78

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
01	MEAN	24.8	25.9	31.5	39.8	53.2	63.4	67.2	67.7	61.2	49.6	37.9	31.1	45.5	
	S. D.	13.622	11.361	12.068	11.872	9.176	6.129	4.952	4.950	7.737	11.193	11.973	10.889	18.576	
	TOTAL OBS	248	225	246	238	231	210	218	217	213	216	208	216	2683	
	MEAN	23.4	24.9	30.7	38.8	52.2	62.1	66.0	65.4	60.2	48.1	37.6	30.4	45.1	
	S. D.	13.777	11.505	12.261	12.054	9.216	6.629	5.421	5.343	7.896	11.403	11.970	10.982	18.582	
	TOTAL OBS	248	225	248	239	245	238	245	247	210	239	208	217	2809	
	MEAN	21.9	24.1	30.8	39.8	53.5	62.4	66.4	65.9	59.8	47.7	36.6	29.0	45.4	
	S. D.	14.963	12.860	12.227	11.336	9.360	7.066	5.313	5.361	7.802	11.178	12.250	11.538	18.973	
	TOTAL OBS	268	226	249	247	281	281	282	287	278	257	231	237	3124	
	MEAN	25.4	25.6	33.1	41.0	54.4	64.0	67.8	68.0	61.7	50.2	38.8	30.2	46.4	
	S. D.	13.929	12.093	12.360	11.479	10.137	7.276	5.911	5.674	7.940	11.052	12.407	11.865	19.140	
	TOTAL OBS	289	262	290	276	290	282	286	292	279	259	247	259	3311	
1	MEAN	25.1	27.1	33.8	42.2	55.2	64.3	68.0	68.1	62.2	51.0	39.8	31.6	47.6	
	S. D.	13.167	12.331	12.679	12.189	10.132	7.439	6.654	6.086	8.183	11.070	12.720	11.558	18.798	
	TOTAL OBS	289	263	292	279	288	282	285	293	279	260	249	258	3317	
	MEAN	26.7	28.3	34.0	42.2	55.8	64.6	68.1	68.1	62.2	51.3	39.0	31.6	47.4	
	S. D.	17.423	11.734	13.002	12.116	10.452	7.267	6.868	6.096	8.409	11.066	12.548	11.790	18.730	
	TOTAL OBS	275	246	271	259	253	247	249	254	237	237	232	241	3001	
	MEAN	25.2	27.5	32.5	41.3	55.2	65.2	69.0	69.0	63.0	52.0	39.6	31.7	47.4	
	S. D.	17.674	11.648	12.874	12.483	9.919	6.971	5.803	5.507	7.843	10.881	12.314	11.857	19.068	
	TOTAL OBS	253	231	251	241	237	226	231	237	220	224	211	223	2788	
2	MEAN	25.1	26.8	32.6	41.4	54.8	64.9	68.9	68.4	62.1	50.8	38.3	31.2	46.6	
	S. D.	13.522	11.532	12.167	12.118	9.269	6.371	4.684	4.852	7.770	10.998	11.668	11.279	18.876	
	TOTAL OBS	248	226	248	238	231	212	222	221	210	217	208	217	2698	
ALL HOURS	MEAN	24.8	26.3	32.4	40.8	54.2	63.8	67.7	67.8	61.5	50.1	38.4	30.9	46.6	
	S. D.	13.809	11.920	12.508	11.993	9.796	7.017	5.820	5.644	8.010	11.174	12.272	11.573	18.860	
	TOTAL OBS	2118	1904	2095	2017	2056	1978	2018	2048	1923	1909	1794	1868	23728	

NAVWEASERVCOM

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

1773

QUANTICO, VA

69-78

JAN

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	01	100.0	100.0	99.2	95.2	86.7	73.4	59.3	42.3	21.4	73.4	248
	04	100.0	100.0	99.6	96.4	85.9	72.6	60.1	43.1	24.2	74.1	248
	07	100.0	100.0	100.0	94.4	86.6	76.5	61.2	47.8	26.5	74.7	248
	10	100.0	100.0	98.6	88.6	77.5	61.9	44.6	33.9	15.9	67.8	289
	13	100.0	99.7	93.8	81.3	65.4	48.8	32.9	20.4	12.5	61.4	289
	16	100.0	99.6	93.8	78.9	61.8	46.9	30.9	22.5	12.0	60.1	275
	19	100.0	100.0	97.6	89.3	77.5	63.2	45.1	29.2	15.8	67.2	253
	22	100.0	100.0	98.0	91.5	83.5	71.0	56.0	34.3	17.7	71.0	243
TOTALS		100.0	99.9	97.6	89.5	78.1	64.3	48.8	34.2	18.3	66.7	2118

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

1773

QUANTICO, VA

69-78

FEB

STATION

STATION NAME

PERIOD

MONTH

### CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
FEB	01	100.0	100.0	100.0	95.6	84.4	70.7	54.2	35.6	15.6	71.0	225
	04	100.0	100.0	100.0	96.0	85.3	73.3	57.3	38.2	18.7	72.4	225
	07	100.0	100.0	99.1	96.0	87.2	73.5	60.2	37.2	15.9	72.7	226
	10	100.0	100.0	96.5	90.1	72.9	51.9	35.5	21.8	12.2	63.5	262
	13	100.0	99.6	92.0	74.5	52.1	36.5	27.4	16.7	9.1	56.3	263
	16	100.0	98.0	91.1	68.3	46.7	32.1	24.0	15.9	9.8	54.3	246
	19	100.0	99.6	97.0	84.0	66.7	48.1	29.9	19.9	13.9	61.3	231
	22	100.0	100.0	98.2	91.6	81.7	61.9	41.6	26.5	12.8	67.2	226
TOTALS		100.0	99.7	97.0	87.0	72.0	56.0	41.3	26.5	13.5	64.8	1704

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

## RELATIVE HUMIDITY

13773

QUANTICO, VA

69-78

MAR

STATION

STATION NAME

PERIOD

MONTH

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAR	01	100.0	100.0	98.8	95.1	84.1	63.0	43.1	29.7	15.9	68.7	246
	04	100.0	100.0	98.4	95.2	85.5	67.7	50.8	33.9	17.7	70.6	248
	07	100.0	99.6	98.8	96.0	86.7	72.7	55.4	39.0	20.1	72.4	245
	10	100.0	99.7	96.6	86.2	67.6	50.3	32.5	24.1	14.8	63.0	290
	13	100.0	99.0	89.0	67.8	47.6	33.6	27.7	18.8	10.6	55.0	292
	16	100.0	87.0	83.8	66.4	40.2	29.9	23.6	18.1	11.0	52.4	271
	19	100.0	98.8	92.0	75.7	56.6	39.8	31.1	20.7	12.4	58.3	251
	22	100.0	100.0	98.4	90.7	75.4	56.9	39.1	27.0	16.5	66.0	248
TOTALS		100.0	99.3	94.5	84.1	68.0	51.7	38.0	26.4	14.8	63.3	2095

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

3773

QUANTICO, VA

05-76

SPC

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
APR	01	100.0	100.0	99.2	93.7	79.8	65.5	51.3	31.9	13.9	69.1	238
	04	100.0	100.0	98.7	95.0	88.7	74.9	58.2	39.3	15.9	73.0	279
	07	100.0	100.0	98.8	97.2	89.5	76.5	59.1	38.9	18.2	73.7	247
	10	100.0	99.3	95.3	80.8	60.1	36.6	21.7	15.9	8.7	57.2	276
	13	100.0	97.8	85.3	64.9	38.7	24.4	17.9	11.5	6.8	50.3	279
	16	99.6	85.4	79.9	54.1	37.1	23.6	16.2	10.8	5.8	47.8	259
	19	100.0	97.1	87.1	68.9	51.7	33.6	19.5	10.8	5.4	53.8	241
	22	100.0	99.2	95.4	88.2	76.9	60.5	38.2	20.6	8.0	64.4	238
TOTALS		100.0	98.6	92.5	80.4	65.3	49.5	35.3	22.5	10.3	61.1	2017

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

STATION 1773

QUANTICO, VA

STATION NAME

69-78

PERIOD

MAY

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
MAY	01	100.0	100.0	100.0	99.6	96.1	88.3	75.3	56.3	31.6	80.6	271
	06	100.0	100.0	100.0	100.0	96.3	92.2	84.1	66.5	38.4	83.7	245
	11	100.0	100.0	100.0	98.9	98.7	98.4	75.8	54.1	21.4	79.9	221
	16	100.0	100.0	99.0	94.1	78.3	63.8	39.7	21.7	10.0	66.3	290
	21	100.0	99.7	97.6	84.0	62.5	41.0	26.7	14.9	5.6	58.4	258
	26	100.0	99.6	94.5	79.4	62.8	41.5	28.1	17.4	5.5	58.3	253
	31	100.0	100.0	98.3	89.0	74.3	59.1	37.6	23.2	7.2	64.6	227
	07	100.0	100.0	99.6	99.1	93.5	81.8	64.5	44.6	20.3	76.2	231
TOTALS		100.0	99.9	98.6	93.1	82.8	69.8	54.0	37.3	17.5	71.0	2056

OCEANAV-SMOS

## RELATIVE HUMIDITY

STATION NAME

PERIOD

JUN  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUN	11	100.0	100.0	100.0	100.0	100.0	96.2	87.6	68.1	30.0	43.9	210
	14	100.0	100.0	100.0	100.0	100.0	97.1	89.5	73.2	37.4	56.0	234
	17	100.0	100.0	100.0	100.0	98.6	95.4	85.1	63.7	18.9	61.6	251
	19	100.0	100.0	100.0	98.9	89.0	74.6	45.7	17.4	3.2	68.2	232
	17	100.0	100.0	100.0	92.9	71.6	43.3	19.5	8.9	3.2	59.3	202
	14	100.0	100.0	98.8	92.3	68.8	40.5	20.6	12.1	4.0	59.5	247
	10	100.0	100.0	100.0	99.1	89.4	70.4	44.7	18.1	5.8	68.3	226
	12	100.0	100.0	100.0	100.0	99.1	93.4	78.8	53.3	21.7	80.1	212
TOTALS		100.0	100.0	99.0	97.9	89.6	76.4	58.9	40.0	15.6	73.4	1678

**OCEANAV-SMOS**

## RELATIVE HUMIDITY

STATION NAME

PERIOD

3:2  
MONTH

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JUL	1	100.0	100.0	100.0	100.0	99.5	97.2	56.7	46.7	36.2	83.9	213
	2	100.0	100.0	100.0	100.0	100.0	98.4	52.2	77.1	39.0	96.3	245
	3	100.0	100.0	100.0	100.0	100.0	97.9	67.2	66.7	19.1	82.6	262
	4	100.0	100.0	100.0	99.7	93.7	73.1	43.7	14.3	2.0	60.5	201
	5	100.0	100.0	100.0	96.1	73.7	40.7	15.8	7.4	2.8	59.2	256
	6	100.0	100.0	100.0	92.0	67.0	39.6	17.3	9.2	2.0	58.8	249
	7	100.0	100.0	100.0	99.1	92.2	74.9	46.3	22.1	0.1	70.0	271
	8	100.0	100.0	100.0	100.0	100.0	95.0	61.5	61.3	27.5	61.9	222
TOTALS		100.0	100.0	100.0	98.4	90.9	77.1	50.8	40.6	17.2	73.9	2018

**OCEANAV-SMOS**



NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

1973

QUANTICO, VA

69-78

AUG

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
AUG	01	100.0	100.0	100.0	99.5	99.5	98.6	95.4	81.6	39.2	86.7	217
	02	100.0	100.0	100.0	100.0	100.0	98.2	98.4	85.4	47.4	88.5	247
	03	100.0	100.0	100.0	100.0	100.0	99.7	96.5	81.5	26.8	86.3	297
	04	100.0	100.0	100.0	99.7	97.3	78.4	49.3	21.9	3.8	70.4	202
	05	100.0	100.0	100.0	97.6	79.2	44.7	17.1	5.5	2.4	60.3	293
	06	100.0	100.0	99.6	94.5	74.4	42.5	18.9	8.7	3.9	59.9	294
	07	100.0	100.0	100.0	99.6	94.9	84.4	59.1	24.9	8.9	77.0	237
	08	100.0	100.0	100.0	99.5	90.1	96.8	88.2	66.1	29.5	83.5	221
TOTALS		100.0	100.0	100.0	98.8	93.1	87.5	65.4	47.0	20.1	76.1	2,48

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

STATION  
1773

QUANTICO, VA

STATION NAME

60-78

PERIOD

CFP  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
SEP	01	100.0	100.0	100.0	100.0	99.0	98.1	94.8	73.3	37.6	85.6	210
	04	100.0	100.0	100.0	100.0	99.5	98.6	94.8	80.5	40.0	86.8	210
	07	100.0	100.0	100.0	100.0	100.0	99.6	96.8	78.4	34.2	86.8	278
	10	100.0	100.0	100.0	99.6	95.0	79.6	53.0	23.3	6.5	71.4	279
	13	100.0	100.0	100.0	96.4	78.9	52.7	20.6	9.3	5.0	61.7	279
	16	100.0	100.0	100.0	94.1	75.5	48.9	20.7	12.2	4.6	61.3	237
	19	100.0	100.0	100.0	99.5	98.0	88.6	70.5	32.7	12.3	75.7	220
	22	100.0	100.0	100.0	100.0	78.6	96.7	88.1	64.3	25.2	83.1	210
TOTALS		100.0	100.0	100.0	78.7	93.1	82.9	67.4	46.8	20.7	76.6	1923

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

1773

QUANTICO, VA

02-77

107

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
107	01	100.0	100.0	100.0	99.5	97.7	94.9	86.1	70.4	38.4	64.4	216
	04	100.0	100.0	100.0	100.0	99.6	96.2	89.1	73.2	44.4	45.6	219
	7	100.0	100.0	100.0	100.0	99.2	95.3	87.2	71.2	44.0	45.6	257
	10	100.0	100.0	100.0	98.1	88.0	72.6	52.9	32.0	13.5	71.5	219
	13	100.0	100.0	98.5	90.4	69.6	47.3	30.4	17.3	8.1	61.7	260
	16	100.0	100.0	96.6	88.2	70.5	45.1	22.4	13.5	5.9	50.6	237
	19	100.0	100.0	100.0	97.8	93.8	85.3	72.3	42.9	11.6	75.9	224
	22	100.0	100.0	100.0	99.5	95.4	91.2	85.7	62.2	28.1	82.1	217
TOTALS		100.0	100.0	99.4	96.7	89.2	78.5	65.8	47.8	24.3	75.8	1909

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

17773  
STATION

SPARTICO, VA  
STATION NAME

69-77  
PERIOD

NOV  
MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
NOV	01	100.0	100.0	100.0	99.0	92.8	83.2	70.7	50.0	23.1	77.2	208
	02	100.0	100.0	100.0	99.5	97.6	89.4	75.0	60.1	29.3	60.9	208
	03	100.0	100.0	100.0	99.6	96.5	99.2	77.5	58.4	33.3	61.5	211
	04	100.0	100.0	100.0	96.0	82.2	62.3	45.3	27.5	15.0	68.9	247
	05	100.0	100.0	97.6	85.9	62.7	39.4	26.5	18.1	9.6	59.7	249
	06	100.0	100.0	95.7	81.5	59.5	35.3	23.3	13.4	6.9	57.2	212
	07	99.5	99.5	99.5	96.2	87.2	70.6	48.8	28.9	10.4	69.5	211
	08	100.0	100.0	100.0	98.1	90.4	76.9	62.0	39.9	17.8	73.9	208
	09											
	10											
	11											
	12											
TOTALS		99.9	99.9	99.1	74.5	83.6	68.3	53.6	37.0	18.2	71.1	1774

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

11773

QUANTICO, VA

69-77

DEC

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
DEC	01	100.0	100.0	100.0	98.1	94.4	83.3	65.3	46.1	27.3	77.1	216
	04	100.0	100.0	100.0	99.5	95.4	84.8	68.2	53.5	27.2	78.3	217
	07	100.0	100.0	100.0	99.2	95.8	81.4	70.9	53.2	25.3	78.2	237
	10	100.0	99.6	99.6	96.1	86.5	67.2	53.7	35.5	27.5	71.4	259
	13	100.0	99.6	98.8	86.8	68.2	51.2	36.4	25.6	17.1	64.3	256
	16	100.0	100.0	97.5	84.2	66.0	46.9	36.5	26.1	15.4	63.0	241
	19	100.0	99.6	99.1	94.6	84.8	70.9	50.2	30.9	19.3	70.7	223
	22	100.0	100.0	99.5	96.8	89.4	75.6	58.5	41.5	27.0	74.3	217
TOTALS		100.0	99.9	99.3	94.4	85.1	70.2	55.0	39.3	21.9	72.2	1468

OCEANAV-SMOS

NAVAL WEATHER SERVICE DETACHMENT  
ASHEVILLE, NORTH CAROLINA

# RELATIVE HUMIDITY

17773

QUANTICO, VA

69-78

ALL

STATION

STATION NAME

PERIOD

MONTH

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS (L.S.T.)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	ALL	100.0	99.9	97.6	89.5	78.1	64.3	48.0	34.2	18.3	68.7	2118
FEB		100.0	99.7	97.0	87.0	72.0	56.0	41.3	26.5	13.5	64.8	1904
MAR		100.0	99.3	94.5	84.1	68.0	51.7	38.0	26.4	14.8	63.3	2093
APR		100.0	98.6	92.5	80.4	65.3	49.5	35.3	22.5	10.3	61.1	2017
MAY		100.0	99.9	98.6	93.0	82.6	69.8	54.0	37.3	17.5	71.0	2056
JUN		100.0	100.0	99.9	97.9	89.6	76.4	58.9	40.0	15.6	73.4	1978
JUL		100.0	100.0	100.0	98.4	90.9	77.1	58.8	40.6	17.2	73.9	2018
AUG		100.0	100.0	100.0	98.8	93.1	80.5	65.4	47.0	20.1	76.1	2048
SEP		100.0	100.0	100.0	98.7	93.1	82.9	67.4	46.8	20.7	76.6	1923
OCT		100.0	100.0	99.4	96.7	87.2	78.5	65.8	47.8	24.3	75.8	1909
NOV		99.9	99.9	99.1	94.5	83.6	68.3	53.6	37.0	18.2	71.1	1794
DEC		100.0	99.9	99.3	94.4	85.1	70.2	55.0	39.3	21.9	72.2	1868
TOTALS		100.0	99.9	98.2	92.8	82.6	68.8	53.5	37.1	17.7	70.7	23728

OCEANAV-SMOS

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

13773

QUANTICO, VA

JANUARY 1969-SEPTEMBER 197

JANUARY

8

STATION

STATION NAME

YEARS

MONTH

HOURS (L.S.T.)

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+										1	.1
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76						100.0					.2
67 TO 71						6.7	16.7	16.7			.7
62 TO 66		12.5			37.5	25.0	25.0				.4
57 TO 61	7.1	10.7	3.6	3.6	17.9	14.3	7.1	17.9	17.9	28	1.5
52 TO 56	9.6	7.7	1.9	1.9	32.7	13.4	9.6	5.8	15.4	52	2.8
47 TO 51	17.2	8.1	2.0	3.0	16.2	13.1	12.1	9.1	19.2	99	5.3
42 TO 46	18.6	6.4	3.0	3.0	17.8	8.9	9.7	14.	17.8	236	12.6
37 TO 41	19.8	5.9	5.9	5.1	15.7	6.2	5.6	13.3	24.7	324	17.3
32 TO 36	17.7	3.7	4.2	7.5	15.5	3.2	7.2	16.5	24.4	411	21.5
27 TO 31	13.5	2.6	3.5	3.8	10.5	5.1	7.3	22.7	25.9	313	16.7
22 TO 26	27.9	2.5	1.5	2.5	6.4	3.4	10.3	28.4	17.2	274	10.9
17 TO 21	2.1	1.6			2.5	2.5	18.0	33.6	19.7	122	6.5
12 TO 16	17.1					9.8	7.3	48.8	17.1	41	2.2
7 TO 11	11.1					11.1	5.6	50.0	22.2	18	1.0
2 TO 6							12.2	36.4	45.5	11	.6
-3 TO 1								100.0		1	.1
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	14.9	4.3	3.3	3.4	13.1	6.5	8.8	19.5	21.8	1669	100.0

NAVWEASERVCOM

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

## WIND DIRECTION

1773  
STATION

QUANTICO, VA

STATION NAME

JANUARY 1969-SEPTEMBER 197

YEARS

FEBRUARY

MONTH

6  
HOURS U.S.T.

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81						50.0	50.0			7	.1
72 TO 76					26.6	42.9	14.3	14.3		7	.4
67 TO 71					19.0	57.1	9.5	9.5	4.8	21	1.3
62 TO 66					12.0	36.0	24.0	4.0	4.0	27	1.5
57 TO 61	4.5		1.5	4.5	41.8	26.9	6.0	9.0	6.0	67	4.0
52 TO 56	4.7	7.5	5.7	5.7	24.5	21.7	10.4	12.3	7.5	106	6.3
47 TO 51	10.4	6.5	2.9	4.3	23.2	6.5	12.3	16.7	16.7	138	8.2
42 TO 46	15.2	7.6	8.9	5.5	16.5	6.3	8.0	17.7	13.9	237	14.1
37 TO 41	21.7	8.3	6.1	4.5	11.2	6.1	7.0	17.9	17.3	313	18.7
32 TO 36	25.4	8.4	4.3	2.6	10.1	3.8	6.9	22.5	15.9	346	20.6
27 TO 31	22.1	6.2	4.4	.9	5.8	2.7	6.2	31.0	20.8	226	13.5
22 TO 26	18.8	5.1	2.6	.9	7.7	2.6	8.5	31.6	22.2	117	7.4
17 TO 21	25.5	2.1		6.4	2.1	4.3	14.9	38.3	6.4	47	2.8
12 TO 16	16.7						22.2	44.4	16.7	18	1.1
7 TO 11							20.0	60.0	20.0	5	.3
2 TO 6								100.0		1	.1
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	18.0	6.6	4.7	3.4	13.8	7.9	8.6	21.4	15.3	1676	100.0

NAVWEASERVCOM



PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.

WIND DIRECTION

1773  
STATION

CLATICO, VA

STATION NAME

JANUARY 1969-5 PTENBER 197

YEARS

MARCH

MONTH

8

HOURS - L.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86						100.0					.1
77 TO 81					25.6	42.9	14.3	14.3		7	.4
72 TO 76				15.4	38.5	30.8	15.4			1	.7
67 TO 71	4.7	4.7	4.7	7.0	39.5	20.9	9.3	9.3		43	2.3
62 TO 66	5.9	4.7	5.9	5.9	29.4	18.8	10.6	12.9	5.9	85	4.6
57 TO 61	14.9	7.5	1.5	8.2	32.1	6.7	7.5	9.3	12.7	134	7.2
52 TO 56	14.6	5.7	5.3	17.9	24.0	4.6	6.1	11.0	10.6	263	14.2
47 TO 51	14.5	12.6	9.7	10.7	17.6	2.8	7.2	11.9	12.9	318	17.2
42 TO 46	17.4	11.5	8.1	5.9	12.1	1.6	7.8	2.2	15.3	321	17.4
37 TO 41	22.6	7.5	4.7	6.9	9.4	3.1	6.3	23.6	15.7	318	17.2
32 TO 36	28.3	9.3	1.8	1.3	5.3	.4	5.8	35.7	12.8	226	12.2
27 TO 31	24.7	2.1	2.1			4.1	10.3	33.1	23.7	97	5.2
22 TO 26	7.5						4.8	71.4	14.3	21	1.1
17 TO 21								100.0			.1
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	17.8	8.4	5.5	7.9	15.8	4.8	7.2	19.8	13.3	1849	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

1973  
STATION

QUANTICO, VA

STATION NAME

JANUARY 1969-SEPTEMBER 197

YEARS

APRIL

MONTH

HOURS U.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96						100.0					.1
87 TO 91				7.1	63.6	27.3				11	.6
82 TO 86	5.3			15.8	47.4	21.1	5.3	5.3		10	1.1
77 TO 81	3.9	2.0	3.9	7.8	41.2	21.6	9.8	9.8		51	2.9
72 TO 76	5.7	1.1	2.3	13.6	38.6	20.5	8.0	6.8	3.4	88	5.0
67 TO 71	6.5	1.8	4.2	6.5	28.6	16.1	10.1	17.3	8.9	168	9.5
62 TO 66	7.3	7.3	5.6	7.3	27.6	7.3	9.1	13.8	14.7	232	13.1
57 TO 61	12.0	6.5	7.6	8.7	21.0	5.1	9.1	17.4	12.7	276	15.5
52 TO 56	18.2	11.1	7.5	10.1	13.0	4.2	6.5	19.5	9.8	307	17.3
47 TO 51	24.4	6.3	6.3	4.4	11.1	3.7	7.8	27.0	8.9	270	15.2
42 TO 46	13.8	5.9	3.7	3.2	3.2	1.1	9.0	45.7	14.4	188	10.6
37 TO 41	22.5	2.7			1.8	2.7	5.4	55.9	9.0	111	6.2
32 TO 36	28.3			1.9	1.9		7.5	39.6	20.8	53	3.0
27 TO 31								100.0			.1
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	14.5	5.9	5.2	6.9	18.0	6.9	8.1	23.9	10.6	1777	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

1773  
STATION

QUANTICO, VA

STATION NAME

JANUARY 1969-SEPTEMBER 197

YEARS

MAY

8

MONTH

HOURS PLUS 10

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96						25.0	25.0	50.0		6	.2
87 TO 91	5.3	12.5		6.3	37.5	12.5	12.5	12.5		16	.9
82 TO 86	7.4		9.3	7.4	50.0	5.6	11.1	7.4	1.9	54	3.2
77 TO 81	5.3	3.3	5.3	9.2	46.7	11.2	8.6	5.9	4.6	152	8.4
72 TO 76	9.4	5.5	4.3	14.1	30.5	14.8	4.3	10.2	7.0	256	14.2
67 TO 71	8.6	8.6	5.9	12.4	24.3	10.0	5.0	9.4	11.8	339	18.8
62 TO 66	11.2	4.7	8.7	10.9	23.0	5.5	4.6	15.6	15.6	366	20.2
57 TO 61	13.7	8.4	9.9	5.7	15.2	4.2	5.3	23.2	14.4	263	14.5
52 TO 56	20.0	9.8	6.7	8.0	4.9	1.3	6.7	27.1	15.6	225	12.4
47 TO 51	18.5	1.2	3.7		2.5		14.8	46.9	12.3	81	4.5
42 TO 46	7.1			2.1		2.4	14.3	61.9	11.9	42	2.3
37 TO 41							12.5	7.5		9	.4
32 TO 36								10.0		7	.1
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	11.4	6.3	6.6	9.5	23.0	7.2	6.6	18.1	11.7	1888	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION

ANTICO, VA

STATION NAME

JANUARY 1969-SEPTEMBER 197

YEARS

MONTH

JUNE

HOURS

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96	18.8			6.3	25.0	18.8	12.5	18.8		11	.9
87 TO 91	5.7	2.6	4.3	5.2	47.8	14.8	7.0	6.1	2.6	115	6.6
82 TO 86	3.0	2.6	2.6	11.9	46.8	12.3	6.0	9.8	5.1	235	13.5
77 TO 81	5.7	3.5	9.9	11.8	39.2	9.9	3.5	8.9	7.6	314	18.1
72 TO 76	11.1	3.3	8.5	7.6	30.6	12.6	3.8	8.5	14.0	422	24.3
67 TO 71	12.1	7.6	5.6	5.4	17.2	8.7	5.6	19.7	18.6	355	20.4
62 TO 66	13.2	6.9	9.0	1.1	10.6	4.2	6.3	25.4	23.3	189	10.9
57 TO 61	23.7	7.9	5.3		3.9		3.9	39.5	15.8	76	4.4
52 TO 56							21.4	57.1	21.4	14	.8
47 TO 51								100.0		2	.1
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	9.8	4.5	6.8	7.2	29.1	9.9	5.2	14.7	12.8	1738	100.0

NAYWEASERVCOM

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

17173  
STATION

LAURETICO, VA

STATION NAME

JANUARY 1969-SEPTEMBER 197

YEAR

JULY 6

MONTH

HOURS

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101					100.0						.1
92 TO 96	7.0		5.3		44.7	7.9	1.5	21.1	2.6	34	2.1
87 TO 91	7.4	1.1	6.6	10.0	50.0	9.5	4.7	8.4	2.1	131	10.7
82 TO 86	10.7	4.0	4.4	10.0	37.7	9.0	6.5	1.0	5.1	321	19.1
77 TO 81	7.4	6.0	6.3	9.6	27.1	12.1	7.4	9.9	13.7	365	21.6
72 TO 76	8.5	3.1	7.1	5.3	18.9	11.8	9.3	17.3	18.7	544	28.7
67 TO 71	17.6	2.0	5.9	.4	6.3	7.8	9.0	35.2	15.6	256	14.5
62 TO 66	14.1	1.3				1.3	1.4	6.3	16.7	74	4.4
57 TO 61	7.7							2.3		17	.7
52 TO 56											
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	100.1	3.3	5.8	6.0	25.1	9.9	7.7	18.6	12.9	1770	100.0

NAVWEASERVCOM

1688 4432 54321

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION 173 STATION NAME ST. PETERSBURG, VA. JANUARY 1969-SEPTEMBER 1971 YEARS AUGUST MONTH

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96	9.4		3.1	25.0	21.9		15.6	11.9	3.1	32	1.4
87 TO 91	4.3	1.6	3.1	6.7	52.8	9.2	8.6	9.8	3.7	107	9.1
82 TO 86	9.4	6.7	6.4	17.4	33.8	6.4	8.0	10.7	9.4	209	16.6
77 TO 81	11.3	7.0	7.8	10.5	24.2	9.4	6.5	6.7	14.7	272	21.7
72 TO 76	1.6	6.8	7.8	3.4	11.4	13.0	6.2	19.4	22.4	500	37.8
67 TO 71	0.2	5.0	2.6	.7	2.6	4.6	5.3	33.1	25.8	72	16.5
62 TO 66	2.3	1.1				1.1	2.1	68.1	5.3	94	5.2
57 TO 61	24.2							2.7	3.0	33	1.3
52 TO 56	25.0							75.0		4	.7
47 TO 51											
42 TO 46											
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	12.0	5.5	5.6	6.0	19.4	8.3	6.4	20.5	16.3	1799	100.0

NAVWEASERVCOM

4

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION

STATION NAME

YEARS

MONTH

HOURS

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122+											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96					3.3				6.7	10	0.2
87 TO 91	3.7			11.3	60.8	5.9	5.9	5.9	5.9	51	3.0
82 TO 86	1.1	0.0	4.3	5.5	55.6	7.7	6.0	4.3	7.7	117	7.0
77 TO 81	6.8	3.0	6.8	11.5	42.3	17.5	2.3	6.4	9.5	220	12.1
72 TO 76	17.0	5.0	6.7	6.9	27.1	13.6	4.7	9.4	17.8	36	21.4
67 TO 71	16.0	8.9	10.6	3.5	16.5	6.4	5.7	14.3	18.7	405	24.1
62 TO 66	19.0	9.9	13.2	1.1	5.5	1.5	4.0	29.8	16.9	272	16.2
57 TO 61	20.0	7.6	2.1	0.7	1.4	2.1	1.4	46.2	9.7	145	8.6
52 TO 56	15.1	1.4					2.7	68.5	12.3	73	4.3
47 TO 51	10.3					6.0	6.9	69.7	6.9	29	1.7
42 TO 46								30.0		5	0.3
37 TO 41											
32 TO 36											
27 TO 31											
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	14.1	6.1	7.5	5.1	21.2	7.1	4.3	20.2	14.4	1683	100.0

NAVWEASERVCOM

# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

## WIND DIRECTION

STATION

QUINTICO, VA

STATION NAME

JANUARY 1969-SEPTEMBER 197

YEARS

OCTOBER

MONTH

HOURS L.S.T.

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86	10.0				20.0	50.0	10.0	10.0		10	.6
77 TO 81	9.8	2.9	5.9	2.9	35.3	5.9	8.8	14.7	14.7	34	2.0
72 TO 76	8.6	5.7	11.4	3.8	41.0	9.5	3.8	3.8	12.4	105	6.3
67 TO 71	10.4	8.2	11.8	9.5	27.2	7.5	2.5	5.7	17.6	279	16.8
62 TO 66	11.4	11.4	9.3	7.2	19.7	6.6	2.4	12.7	19.9	332	20.0
57 TO 61	17.0	13.1	7.3	5.2	8.7	3.5	3.1	24.2	18.0	289	17.4
52 TO 56	23.9	9.3	11.1	1.3	3.5	2.7	3.1	32.7	12.4	226	13.6
47 TO 51	11.9	3.2	2.1	1.1	4.8	3.2	2.1	47.1	14.4	187	11.3
42 TO 46	19.0	3.7	.9	.9	.9	2.8	8.4	43.9	9.3	177	10.4
37 TO 41	10.0		2.0				2.0	44.0	2.0	50	3.0
32 TO 36	15.2					5.0		72.7	6.1	33	2.0
27 TO 31	10.0						10.0	90.0		1	.6
22 TO 26											
17 TO 21											
12 TO 16											
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 R. LWR											
TOTALS	16.6	8.2	7.8	4.5	14.4	5.2	3.2	24.7	15.2	1662	100.0

NAVWEASERVCOM



# PERCENTAGE FREQUENCY OF AIR TEMPERATURE VS.

WIND DIRECTION

1973

QUANTICO, VA

JANUARY 1969-SEPTEMBER 197

NOVEMBER

STATION

STATION NAME

YEARS

MONTH

HOURS U.S.T.

## WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86						50.0	50.0			4	.7
77 TO 81	7.6				23.3	38.9	5.6	5.6	11.1	17	1.2
72 TO 76	3.8	3.8	3.8	3.8	26.9	26.9	15.4	7.7	7.7	26	1.7
67 TO 71	10.3	6.7	3.4	1.7	39.7	25.9	6.9	1.7	3.4	58	3.7
62 TO 66	14.3	11.0	5.5	5.5	22.0	16.5	7.7	4.4	13.2	91	5.9
57 TO 61	15.6	8.8	4.9	8.8	22.0	7.8	3.9	13.2	15.1	215	13.2
52 TO 56	11.0	3.3	6.7	4.4	17.6	6.2	7.6	15.2	17.6	217	13.5
47 TO 51	19.9	2.6	.7	3.7	20.6	4.4	6.3	22.1	19.9	272	17.5
42 TO 46	23.3	3.7	1.2	2.7	9.7	5.1	6.6	29.6	17.9	257	16.5
37 TO 41	17.5	3.1	2.1		7.8	4.1	8.8	39.2	15.5	194	12.5
32 TO 36	20.9	3.1	1.6	1.6	5.4	5.4	3.9	46.5	11.6	129	8.7
27 TO 31	13.9					4.2	6.9	55.6	19.4	77	4.6
22 TO 26	8.3	8.3						66.7	16.7	12	.8
17 TO 21	0.0						0.0	40.0	20.0	5	.3
12 TO 16								100.0		1	.1
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	17.3	4.4	2.8	3.5	15.8	7.6	6.7	25.1	16.0	1554	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

STATION 73

STATION NAME

YEARS

MONTH

HOURS - L.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 +											
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101											
92 TO 96											
87 TO 91											
82 TO 86											
77 TO 81											
72 TO 76	3.3						33.3	33.3		7	.2
67 TO 71		6.7			26.7	40.0	13.3	13.3		15	.4
62 TO 66	3.7		3.7		18.5	48.1	18.5	7.4		27	1.7
57 TO 61	10.9	4.3	2.2		15.2	34.8	17.9	13.0	8.7	46	2.8
52 TO 56	11.7	1.4		4.3	18.8	18.8	1.4	11.6	21.7	69	4.3
47 TO 51	16.2	4.8	7.2	1.8	24.7	10.8	2.4	10.2	22.8	167	10.3
42 TO 46	21.3	8.7	4.0	2.2	17.0	3.2	6.1	17.3	2.2	277	17.1
37 TO 41	17.8	7.8	5.4	3.9	16.0	5.4	3.9	19.1	20.7	387	23.9
32 TO 36	24.6	3.9	3.3	2.6	7.5	2.9	4.2	33.6	17.3	377	18.9
27 TO 31	26.0	2.8	.9	2.2	6.9	3.5	6.9	38.1	13.0	231	14.3
22 TO 26	15.5	2.8	1.4		2.8	4.2	8.5	46.5	18.3	71	4.4
17 TO 21		5.4			11.8	5.9	11.8	52.9	11.8	17	1.0
12 TO 16	25.0							50.0	25.0	4	.2
7 TO 11											
2 TO 6											
-3 TO 1											
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	20.0	5.4	3.6	2.5	13.6	7.2	5.4	24.2	18.0	1621	100.0

NAVWEASERVCOM

PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VS.  
WIND DIRECTION

17773  
STATION

QUANTICO, VA

STATION NAME

JANUARY 1969-SEPTEMBER 197

YEARS

ALL

MONTH

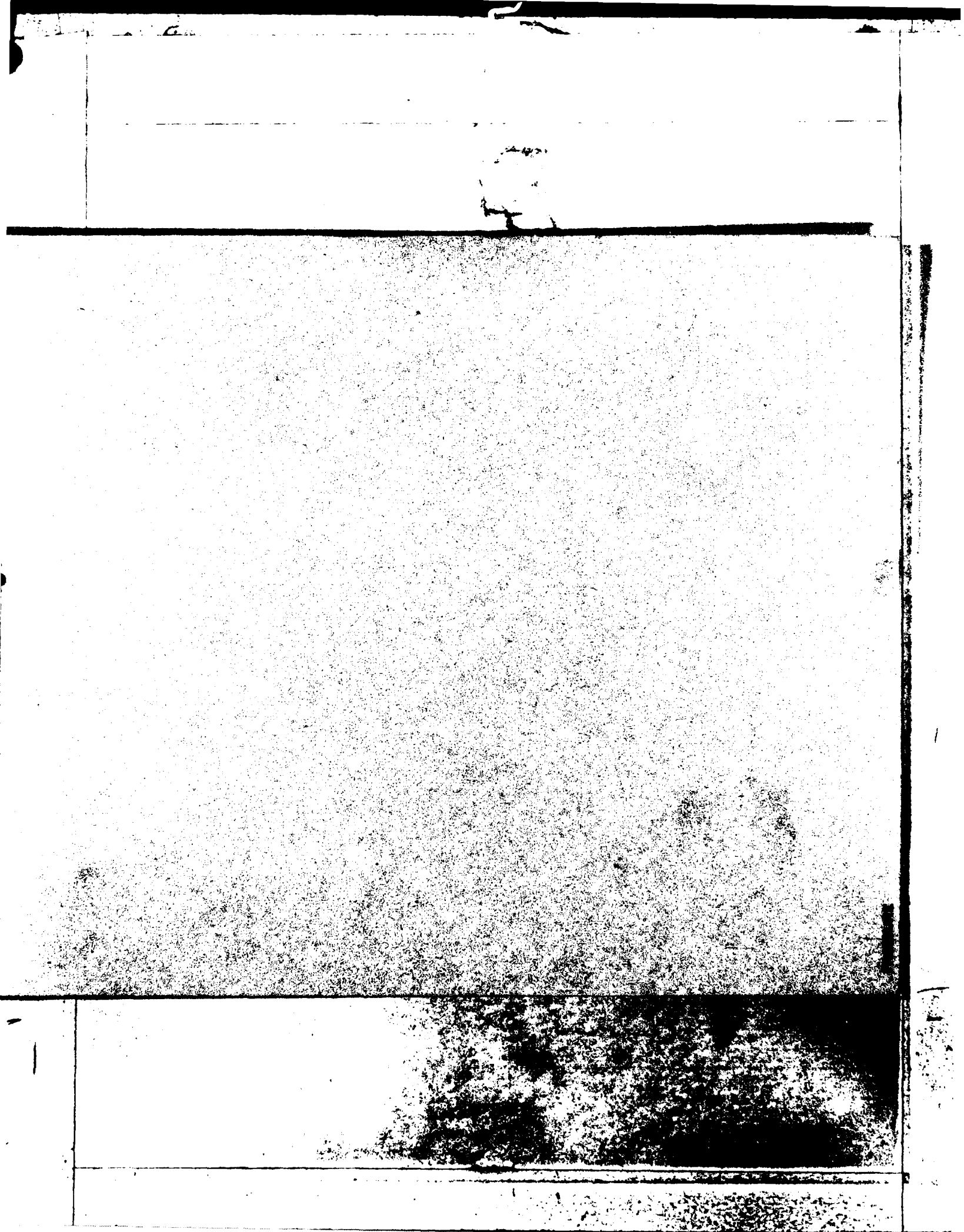
8

HOURS L.S.T.

WIND DIRECTION

TEMP.	NNW & N	NNE & NE	ENE & E	ESE & SE	SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
122 -										1	.0
117 TO 121											
112 TO 116											
107 TO 111											
102 TO 106											
97 TO 101					100.0					1	.0
92 TO 96	9.6		3.2	9.6	30.9	8.5	12.8	21.3	4.3	94	.5
87 TO 91	6.2	1.8	4.2	8.1	51.3	10.6	6.8	8.1	2.9	546	2.6
82 TO 86	7.3	3.2	4.6	10.2	41.0	9.6	7.2	9.2	7.2	1761	5.1
77 TO 81	7.7	4.8	7.2	10.2	33.7	11.3	5.9	8.1	11.1	1535	7.4
72 TO 76	9.8	4.5	7.0	6.8	23.3	13.6	6.2	12.9	16.0	2292	11.7
67 TO 71	13.0	6.4	6.7	5.3	18.7	9.7	6.1	18.0	16.2	2247	10.8
62 TO 66	12.3	7.2	7.8	5.3	17.1	7.1	5.8	21.6	15.7	1799	8.6
57 TO 61	15.8	8.1	5.7	5.6	16.3	6.4	5.2	23.4	13.5	1575	7.6
52 TO 56	17.8	7.3	6.3	7.7	13.9	5.9	6.2	22.0	13.0	1549	7.4
47 TO 51	18.2	6.1	4.8	4.5	15.4	5.1	7.2	23.5	15.2	1563	7.5
42 TO 46	19.8	7.1	4.5	3.7	11.9	4.1	8.0	25.8	16.0	1673	8.0
37 TO 41	20.4	6.3	4.6	3.6	11.7	4.8	5.9	24.9	17.9	1775	8.2
32 TO 36	23.1	5.4	3.2	3.5	9.4	3.0	5.9	28.9	17.6	1497	7.2
27 TO 31	21.3	3.2	2.6	2.0	6.8	3.9	7.3	32.7	20.5	951	4.6
22 TO 26	21.9	3.3	1.6	1.4	5.6	3.1	8.9	35.5	18.6	425	2.0
17 TO 21	20.8	2.1		1.6	3.1	3.1	16.7	37.0	15.6	192	.9
12 TO 16	17.2					6.3	10.9	48.4	17.2	64	.3
7 TO 11	8.7					8.7	8.7	52.2	21.7	23	.1
2 TO 6							16.7	41.7	41.7	12	.1
-3 TO 1								100.0		1	.0
-8 TO -4											
-13 TO -9											
-18 TO -14											
-23 TO -19											
-28 TO -24											
-33 TO -29											
-38 TO -34											
-43 TO -39											
-48 TO -44											
-53 TO -49											
-58 TO -54											
-59 & LWR											
TOTALS	20.1	5.7	5.5	5.6	18.6	7.3	6.5	20.8	14.4	20806	100.0

NAVWEASERVCOM



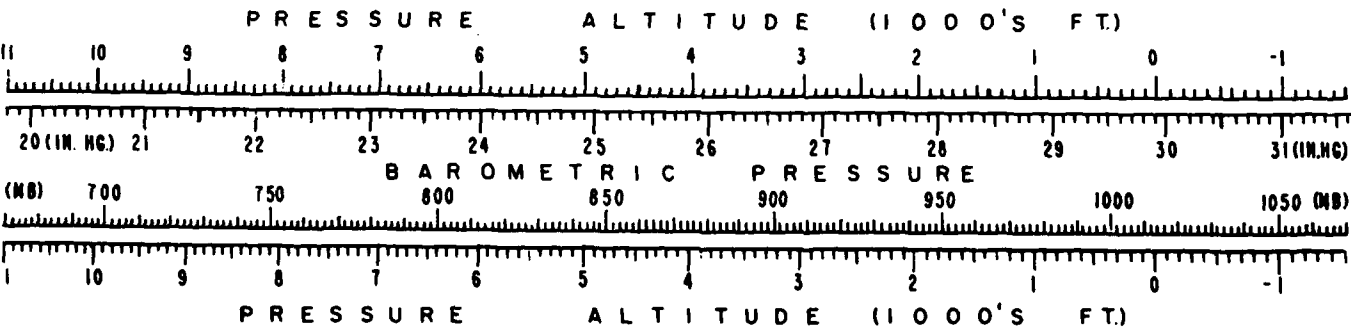
1000, Federal Building  
 Asheville, N. C.

PART F PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

- 1. Station pressure in inches of mercury.
- 2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



# MEANS AND STANDARD DEVIATIONS

SEA LEVEL PRESSURE IN MBS FROM HOURLY OBSERVATIONS

1973

QUANTICO, VA

61-78

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
	MEAN	1019.6	1017.7	1015.8	1015.8	1015.4	1014.6	1015.9	1016.9	1018.6	1020.5	1019.4	1018.6	1017.3	
	S. D.	8.089	9.235	8.295	7.482	5.483	5.610	4.329	4.055	5.034	7.055	8.231	8.750	7.256	
	TOTAL OBS	248	226	246	238	231	210	218	217	210	217	208	217	2686	
	MEAN	1019.5	1017.8	1015.9	1015.6	1015.1	1014.7	1015.4	1016.9	1018.3	1020.1	1018.3	1018.7	1017.1	
	S. D.	8.102	9.141	8.518	7.698	5.677	5.567	4.520	4.150	5.179	7.244	8.355	8.844	7.306	
	TOTAL OBS	248	226	248	239	246	239	245	247	210	239	208	217	2812	
	MEAN	1019.7	1019.3	1016.4	1016.5	1016.3	1015.8	1016.9	1017.9	1018.9	1020.6	1018.7	1019.0	1017.8	
	S. D.	8.398	9.170	8.719	8.021	5.799	5.622	4.544	4.093	5.399	7.464	8.319	9.275	7.316	
	TOTAL OBS	268	229	250	247	281	281	282	287	278	257	231	237	3128	
	MEAN	1020.4	1019.2	1017.1	1016.8	1016.4	1015.8	1016.8	1018.3	1019.3	1021.2	1019.6	1019.8	1018.4	
	S. D.	8.971	9.222	9.013	8.324	5.848	5.658	4.589	4.119	5.499	7.529	8.393	9.379	7.584	
	TOTAL OBS	289	262	291	276	290	282	286	292	279	259	247	259	3312	
	MEAN	1018.8	1017.8	1015.4	1015.4	1015.3	1015.0	1016.1	1017.4	1018.1	1019.8	1017.8	1017.8	1017.3	
	S. D.	8.761	9.189	8.937	8.080	5.778	5.527	4.626	4.015	5.416	7.403	8.201	9.259	7.426	
	TOTAL OBS	289	264	292	279	288	283	285	293	279	260	249	258	3319	
	MEAN	1018.3	1016.4	1014.0	1014.0	1013.9	1014.1	1014.9	1016.1	1017.1	1019.2	1017.1	1017.6	1016.0	
	S. D.	8.310	9.220	8.680	7.735	5.526	5.503	4.684	4.024	5.310	7.199	8.306	8.834	7.354	
	TOTAL OBS	278	246	271	259	253	247	249	254	237	237	232	241	3101	
	MEAN	1019.6	1017.3	1014.9	1014.4	1014.3	1013.9	1015.2	1016.3	1017.7	1020.1	1018.0	1018.7	1016.7	
	S. D.	7.959	9.334	8.185	7.341	5.278	5.407	4.397	3.902	5.065	7.024	7.963	8.435	7.179	
	TOTAL OBS	273	231	251	241	237	226	231	237	220	224	211	223	2785	
2	MEAN	1020.0	1017.7	1015.4	1015.7	1015.4	1014.8	1016.0	1017.1	1018.6	1020.0	1018.8	1018.9	1017.4	
	S. D.	7.890	9.162	8.131	7.231	5.253	5.462	4.267	4.003	5.011	7.065	8.000	8.710	7.158	
	TOTAL OBS	248	226	248	238	231	212	222	221	210	217	208	217	2698	
ALL HOURS	MEAN	1019.5	1017.7	1015.8	1015.5	1015.3	1014.9	1015.9	1017.2	1018.3	1020.3	1018.3	1018.6	1017.2	
	S. D.	8.349	9.189	8.615	7.874	5.652	5.578	4.543	4.100	5.294	7.275	8.203	8.967	7.363	
	TOTAL OBS	2118	1910	2097	2017	2057	1980	2018	2048	1923	1910	1794	1869	23741	

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# MEANS AND STANDARD DEVIATIONS

STATION PRESSURE IN INCHES HG FROM HOURLY OBSERVATIONS

17773 QUANTICO, VA

69-78

STATION		STATION NAME												YEARS	
HRS.(L.S.T.)		JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	ANNUAL	
0	MEAN	30.089	30.042	29.984	29.983	29.973	29.949	29.985	30.016	30.066	30.122	30.061	30.067	30.028	
	S. D.	.239	.273	.245	.221	.162	.166	.128	.120	.149	.209	.243	.258	.214	
	TOTAL OBS	249	226	246	238	231	217	218	217	210	217	208	217	2686	
	MEAN	30.074	30.036	29.975	29.980	29.964	29.950	29.972	30.015	30.059	30.110	30.059	30.069	30.072	
	S. D.	.239	.270	.251	.226	.168	.164	.134	.123	.153	.214	.246	.261	.216	
	TOTAL OBS	248	226	248	239	246	239	245	247	210	239	208	217	2812	
	MEAN	30.101	30.059	30.002	30.006	29.998	29.979	30.004	30.045	30.074	30.124	30.071	30.079	30.044	
	S. D.	.245	.271	.258	.237	.171	.166	.134	.120	.159	.221	.246	.274	.216	
	TOTAL OBS	260	229	258	247	281	241	282	287	278	257	231	237	3128	
	MEAN	30.131	30.084	30.021	30.014	30.002	29.985	30.014	30.056	30.086	30.144	30.096	30.101	30.040	
	S. D.	.263	.272	.266	.246	.173	.167	.135	.122	.163	.222	.248	.276	.224	
	TOTAL OBS	289	262	291	276	290	282	286	292	279	259	247	259	3312	
1	MEAN	30.071	30.038	29.978	29.971	29.970	29.961	29.992	30.031	30.052	30.101	30.044	30.045	30.020	
	S. D.	.259	.271	.264	.239	.171	.164	.136	.119	.160	.218	.242	.273	.219	
	TOTAL OBS	289	264	292	279	288	284	285	293	279	260	249	258	3320	
	MEAN	30.059	30.000	29.930	29.929	29.928	29.932	29.958	29.995	30.024	30.083	30.021	30.038	29.991	
	S. D.	.245	.273	.257	.228	.164	.163	.138	.119	.157	.213	.236	.261	.217	
	TOTAL OBS	275	246	271	259	253	247	249	254	237	237	232	241	3001	
	MEAN	30.076	30.027	29.958	29.943	29.939	29.924	29.964	30.000	30.041	30.112	30.049	30.069	30.010	
	S. D.	.235	.268	.243	.217	.156	.160	.130	.116	.149	.208	.235	.249	.212	
	TOTAL OBS	253	231	251	241	237	226	231	237	220	224	211	223	2785	
2	MEAN	30.108	30.041	29.986	29.982	29.972	29.954	29.988	30.023	30.067	30.131	30.063	30.076	30.032	
	S. D.	.273	.271	.241	.213	.159	.161	.126	.118	.148	.209	.236	.257	.212	
	TOTAL OBS	248	226	248	238	231	212	222	221	210	217	208	217	2698	
ALL HOURS	MEAN	30.071	30.041	29.980	29.974	29.964	29.958	29.984	30.024	30.059	30.114	30.058	30.068	30.024	
	S. D.	.246	.272	.259	.230	.167	.165	.134	.121	.157	.219	.242	.264	.218	
	TOTAL OBS	2119	1910	2097	2017	2057	1981	2019	2048	1923	1910	1794	1869	23742	

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8 - 85